AT&T optical private line solutions

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Dedicated to Carrying

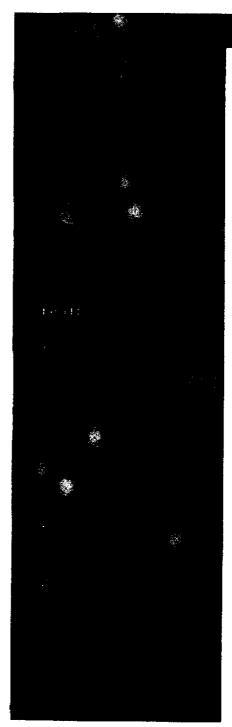
Tomorrow's Applications



AT&T Optical Private Line Solutions

"...demand is out there for IP and bandwidth, so we are on a 'build and fill' strategy."

Mike Armstrong,CEO, AT&T



How does your business grow? With better information, of course, Which means you need to connect LANs to WANs for stronger communications. with wider audiences. Economically converge voice and data traffic over robust technologies such as asynchronous transfer mode (ATM). Share heavy-duty. CAD/CAM applications that reduce time-to-market. Extend mainframe channels and make supercomputer file transfers for mission-critical activities such as data hacum. Utilize full-motion video. for videoconferencing and visual imaging. More than ever, businesses like yours are looking toward emerging broadband applications, with their extraordinary. flexibility to grow and enhance networks. for years to come. Broamband has the speed and bandwidth to smoothly perform all of the above - and more. Where do you go for world-class communications solutions that solve real-life business issues? Where you've

always gone, AT&T.

A1&T SONET Private Line Services give you the highest-speed, best-of-breed croadband communications capabilities, ready to deploy when and where you need them.

AT&T Optical Solutions

SONET, or Synchronous Optical

Network, is a standards-based, fiber optics

transmission method that AT&T has

adopted and built into our highestcapacity domestic digital service offering.

AT&T's adaptation provides a new level

of network intelligence that carries your

data, known as the "payload", as well as

control and monitoring information,

called "overhead", in one synchronous

data stream.

AT&T's optical solutions support the fastest network speeds available today, from 155 Mbps (OC3) to 9,953 Cbps (OC192) = 10 billion data bits per second. We're currently expanding our optical infrastructure with 16,500 miles of our new "next-generation" fiber in conjunction with our new two-tier

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architecture - positioning our nerwork to support OC768 services.

Four times faster than the OC392 of today's network.

This two-tier architecture is comprised of an ultra-capacity
"express" overlay network with state of the-art SONET and optical
networking technologies. It yields a 50% reduction in regeneration
and multiplexing points, which in turn reduces points of failure and
equipment costs.

In addition to high-speed transmission overall, AT&T utilizes.

Dense Wave Division Multiplexing (DWDM). This sophisticated technology lets us use different wavelengths or light to dramatically expand the bandwidth capacity of a single optical liber – allowing each fiber to carry much more data, much more efficiently than ever before. In 2000, AT&T deployed DWDM systems with wavelengths of 64 to 80, and with 1,200 systems in place, AT&T offers the largest DWDM deployment in the world.

Plus. AT&T's optical solutions have extensive reach to your areas of network needs with more than 50,000 route miles, another 16,500 with the new next-generation fiber deployment, more than 115 physical rings (and still adding) and 240+ wavelengths ensure extensive coverage and higher reliability by limiting ring size.

Reliability Right Down to the Ring

AT&T has always known that reliability of service is just as important to you as high speed. AT&T's restoration features on the network enable us to route around a failure in milliseconds, so fast that it's virtually unnoticeable to you and your users.

In addition, AT&T's optical solutions interface at your site and the AT&T network over two pairs of optical fiber. One pair acts as this service circuit – the service path – and the other is available as a standby protection circuit – the protection path. These redundant connections allow switching between the service path and protection path in the event of a orcuit failure.

As an option, you can even benefit from diverse muting, building inextra protection should a failure occur.

Adding to the assurance of reliability AT&T monitors the AT&T Obtical Network 24 hours a day. In addition, the AT&T SONET Maintenance Center is available on a 24x7 basis for service issues.

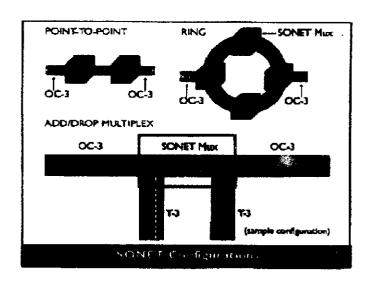
Service Options for Expanding Revenue

AT&T's optical solutions are available in two configurations – an Interoffice Channel (IOC) circuit for a point to point, dedicated connection between two Af&T Central Offices (COs), or a Local Channel (LC) circuit. Each configuration comes with multiple access options that cover virtually every need your company might experience.

For extra value, the Multiplexing Office Function, an optional component, adds even greater flexibility.

Currently available for SONET OC3 and OC12 services, this AT&T Multiplexing option allows for channelization and an economical means to Separate and transmit lower-capacity DS1, DS3 and/or OC3 signals. Which means you can more easily and efficiently segment your communications without sacrificing quality or quantity.

AT&T Optical Private Line Solutions



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Mike Armstrong, CEO,
 AT&T

Support from the Leader

AT&T's state-of-the-art architecture, superior network technology and robust infrastructure make us the industry Inager in optical services – now and with a clear plan for an optical switched network as technologies evolve in the future. As you devote your resources to developing new business opportunities, you can rely on AT&T for world-class support

With more fiber miles, more built-in redundancy features and a comprehensive Service Level Agreement, the A1&1 Private Line Service Assurance Warranty.

we can carry your next-generation
communications where they need
to go - reliably efficiently and at
unhalievable speeds

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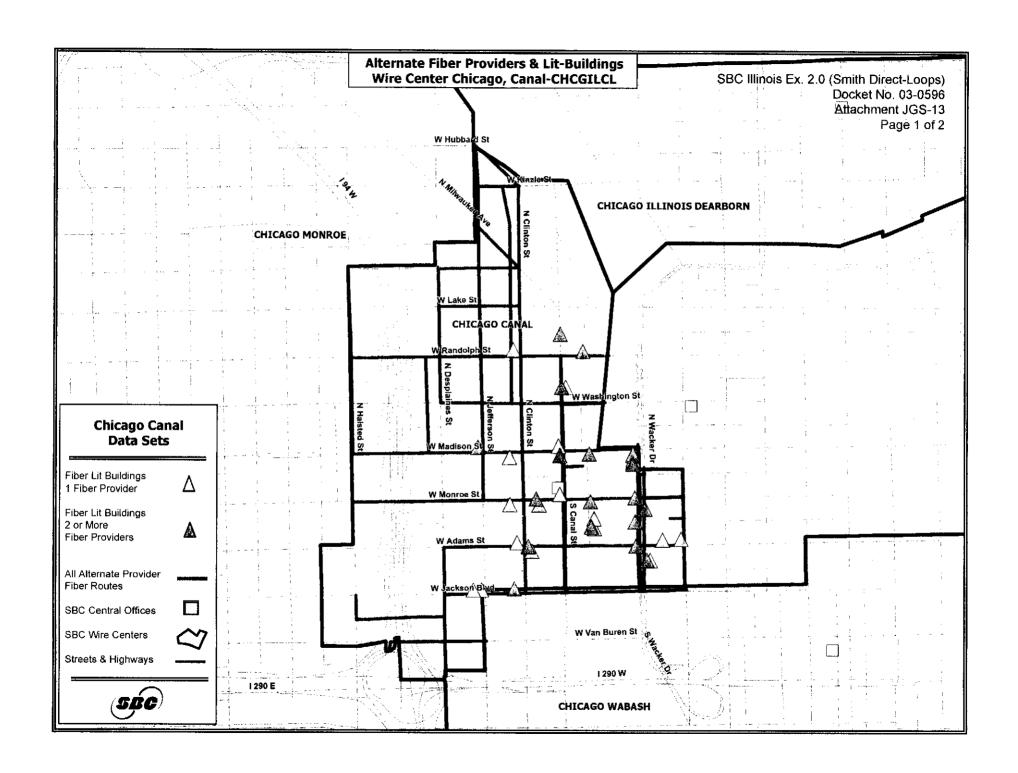
For more information, contact your AT&T Account Representative or AT&T Alkance Program Agent.

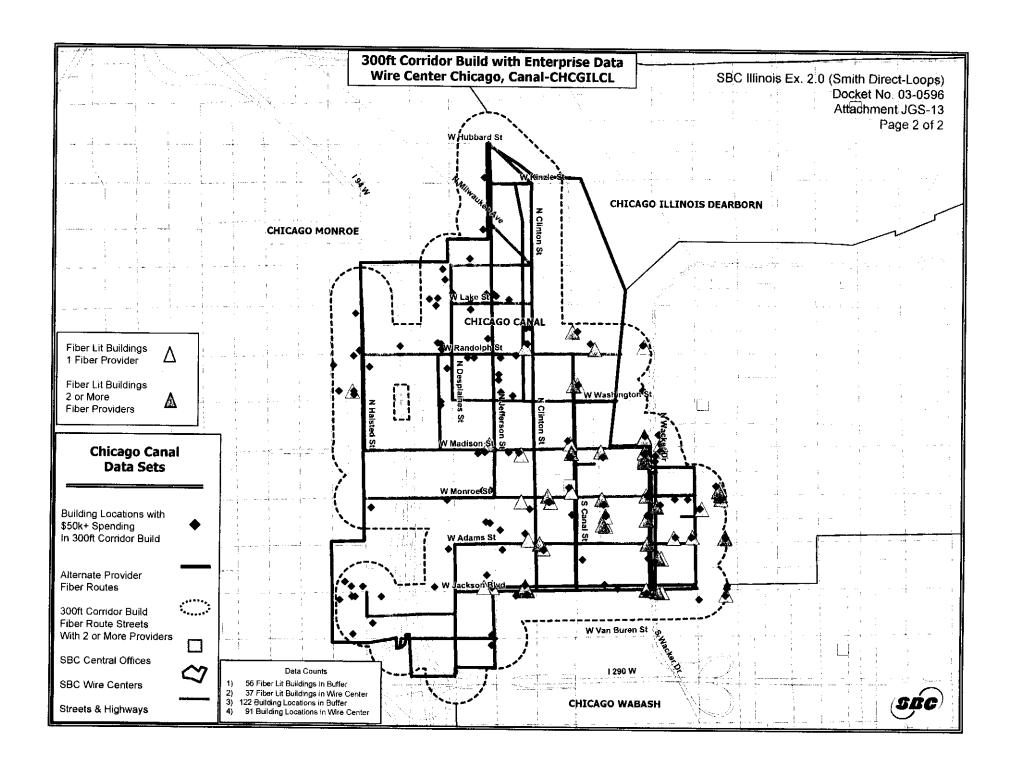
Call 1-800-288-3199
or visit our web site at www.att.com/ipservices.

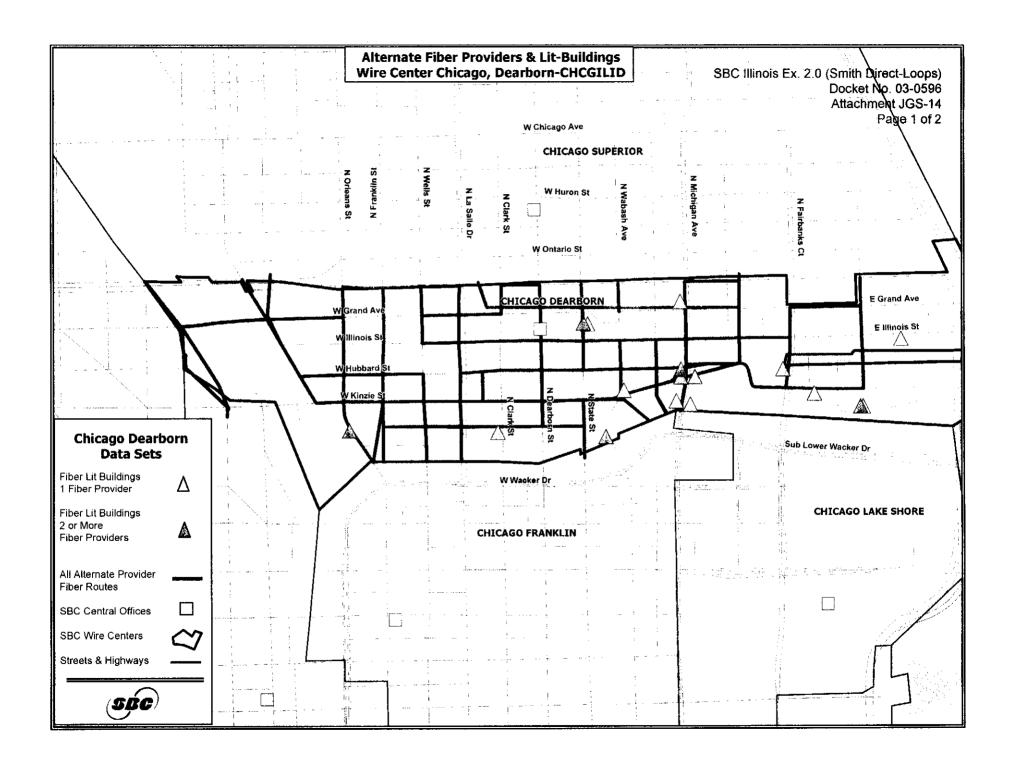
| | List of Locatio | ns Satisfying Whole | esale Trigger |
|----------|----------------------|-------------------------------------|--------------------|
| | Serving Wire Center | Address | City##:1"# |
| 1 | ARLHILAH | 1305 ALGONQUIN RD | ELK GROVE TOWNSHIP |
| 2 | BNSVILBV | 1 PIERCE PL | ITASCA |
| 3 | BNSVILBV | 2 PIERCE PL | ITASCA |
| 4 | BNSVILBV | 711 N EDGEWOOD AVE | WOOD DALE |
| 5 | CHCGILCA | 1 BANK ONE PLZ | CHICAGO |
| 6 | CHCGILCA | 350 E CERMAK RD | CHICAGO |
| 7 | CHCGILCL | 10 S CANAL ST | CHICAGO |
| 8 | CHCGILCL | 10 S RIVERSIDE PLZ | CHICAGO |
| 9 | CHCGILCL | 10 S WACKER DR | CHICAGO |
| 10 | CHCGILCL | 111 N CANAL ST | CHICAGO |
| 11 | CHCGILCL | 120 S RIVERSIDE PLZ | CHICAGO |
| 12 | CHCGILCL | 125 S WACKER DR | CHICAGO |
| 13 | CHCGILCL | 150 S WACKER DR | CHICAGO |
| 14 | CHCGILCL | 165 N CANAL ST | CHICAGO |
| 15 | CHCGILCL | 2 N RIVERSIDE PLZ | CHICAGO |
| 16 | CHCGILCL | 200 S WACKER DR | CHICAGO |
| 17 | CHCGILCL | 233 S WACKER DR | CHICAGO |
| 18 | CHCGILCL | 30 S WACKER DR | CHICAGO |
| 19 | CHCGILCL | 300 S RIVERSIDE PLZ | CHICAGO |
| 20 | CHCGILCL | 525 W MONROE ST | CHICAGO |
| 21 | CHCGILCL | 550 W JACKSON BLVD | CHICAGO |
| 22 | CHCGILCL | 555 W ADAMS ST | CHICAGO |
| 23 | CHCGILCL | 600 W MADISON ST | CHICAGO |
| 24 | CHCGILFR | 1 N STATE ST | CHICAGO |
| 25 | CHCGILFR | 10 S DEARBORN ST | CHICAGO |
| 26 | CHCGILFR | 10 S LA SALLE ST | CHICAGO |
| 27 | CHCGILFR | 100 S WACKER DR | CHICAGO |
| 28 | CHCGILFR | 101 N WACKER DR | CHICAGO |
| 29 | CHCGILFR | 135 S LA SALLE ST | CHICAGO |
| 30 | CHCGILFR | 140 S DEARBORN ST | CHICAGO |
| 31 32 | CHCGILFR | 150 N MICHIGAN AVE | CHICAGO |
| 32 33 | CHCGILFR | 161 N CLARK ST | CHICAGO |
| 34 | CHCGILFR | 181 W MADISON ST | CHICAGO |
| 35 | CHCGILFR CHCGILFR | 190 S LA SALLE ST 20 N WACKER DR | CHICAGO |
| 36 | CHCGILFR | 200 N LA SALLE ST | CHICAGO |
| 37 | CHCGILFR | 200 W ADAMS ST | CHICAGO |
| 38 | CHCGILFR | 200 W MADISON ST | CHICAGO CHICAGO |
| 39 | CHCGILFR | 208 S LA SALLE ST | CHICAGO |
| 40 | CHCGILFR | 221 N LA SALLE ST | CHICAGO |
| 41 | CHCGILFR | 222 W ADAMS ST | CHICAGO |
| 42 | CHCGILFR | 225 W WACKER DR | CHICAGO |
| 43 | CHCGILFR | 225 W WASHINGTON ST | CHICAGO |
| 44 | CHCGILFR | 227 W MONROE ST | CHICAGO |
| 45 | CHCGILFR | 230 W MONROE ST | CHICAGO |

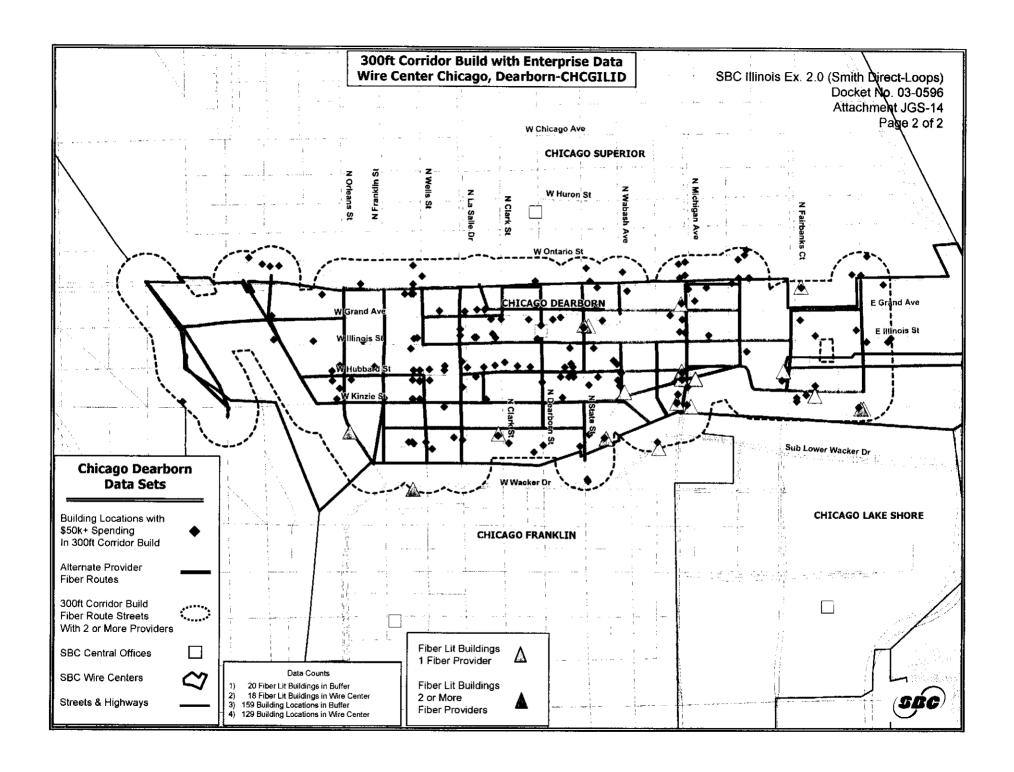
| | | | / Macin | ment JGS-12 |
|----|----------|-------------------------|-------------------|-------------|
| 46 | CHCGILFR | 311 W WASHINGTON ST | CHICAGO | Page 2 of 3 |
| 47 | CHCGILFR | 33 N LA SALLE ST | CHICAGO | |
| 48 | CHCGILFR | 333 N MICHIGAN AVE | CHICAGO |] |
| 49 | CHCGILFR | 333 W WACKER | CHICAGO | |
| 50 | CHCGILFR | 65 E WACKER PL | CHICAGO | |
| 51 | CHCGILFR | 70 W MADISON ST | CHICAGO | |
| 52 | CHCGILFR | 77 W WACKER DR | CHICAGO | |
| 53 | CHCGILID | 330 N WABASH AVE | CHICAGO | |
| 54 | CHCGILID | 350 N ORLEANS ST | CHICAGO | 7 |
| 55 | CHCGILID | 444 N MICHIGAN AVE | CHICAGO | 1 |
| 56 | CHCGILID | 455 CITYFRONT PLAZA DR | CHICAGO | 7 |
| 57 | CHCGILID | 515 N STATE ST | CHICAGO | 1 |
| 58 | CHCGILID | 710 N LAKE SHORE DR | CHICAGO | 1 |
| 59 | CHCGILLA | 3111 S WESTERN AVE | CHICAGO | 7 |
| 60 | CHCGILLA | 4200 W 40TH ST | CHICAGO | 1 |
| 61 | CHCGILLR | 130 E RANDOLPH ST | CHICAGO | |
| 62 | CHCGILLR | 155 N MICHIGAN AVE | CHICAGO | 7 |
| 63 | CHCGILLR | 180 N STETSON AVE | CHICAGO | 7 |
| 64 | CHCGILLR | 200 E RANDOLPH DR | CHICAGO | |
| 65 | CHCGILLR | 205 N MICHIGAN AVE | CHICAGO | |
| 66 | CHCGILLR | 225 N MICHIGAN AVE | CHICAGO | 7 |
| 67 | CHCGILLR | 303 E WACKER DR | CHICAGO | 1 |
| 68 | CHCGILMH | 11835 S O AVE | CHICAGO | ┪ |
| 69 | CHCGILSU | 600 W CHICAGO AVE | CHICAGO | - |
| 70 | CHCGILSU | 630 N MCCLURG CT | CHICAGO | ┪ |
| 71 | CHCGILWB | 111 W JACKSON BLVD | CHICAGO | ┪ |
| 72 | CHCGILWB | 141 W JACKSON BLVD | CHICAGO | - |
| 73 | CHCGILWB | 175 W JACKSON BLVD | CHICAGO | |
| 74 | CHCGILWB | 216 W JACKSON BLVD | CHICAGO | ┪ |
| 75 | CHCGILWB | 300 S WACKER DR | CHICAGO | - |
| 76 | CHCGILWB | 311 S WACKER DR | CHICAGO | - |
| 77 | CHCGILWB | 400 S LA SALLE ST | CHICAGO | 1 |
| 78 | CHCGILWB | 401 S LA SALLE ST | CHICAGO | 1 |
| 79 | CHCGILWB | 427 S LA SALLE ST | CHICAGO | 1 |
| 80 | CHCGILWB | 440 S LA SALLE ST | CHICAGO | 1 |
| 81 | CHCGILWB | 520 S FEDERAL ST | CHICAGO | 1 |
| 82 | CHCGILWB | 547 W JACKSON BLVD | CHICAGO | 1 |
| 83 | CHCGILWB | 555 W JACKSON BLVD | CHICAGO | 1 |
| 84 | CHCGILWB | 600 S FEDERAL ST | CHICAGO | 1 |
| 85 | CHCGILWB | 601 W POLK ST | CHICAGO | 1 |
| 86 | CHCGILWB | 700 S FEDERAL ST | CHICAGO | 7 |
| 87 | CHCGILWB | 717 S WELLS ST | CHICAGO | 1 |
| 88 | CHCGILWB | 725 S WELLS ST | CHICAGO | 1 |
| 89 | CHCGILWB | 85 W CONGRESS PKWY | CHICAGO | 1 |
| 90 | CHMPILCP | 304 S RANDOLPH (217) ST | CHAMPAIGN | ┪ |
| 91 | COVLILCQ | 423 W CLAY ST | COLLINSVILLE | - |
| 92 | DWGVILDG | 501 63RD ST | DOWNERS GROVE | - |
| 93 | DWGVILDG | 801 WARRENVILLE RD | LISLE | - |
| 94 | EGVGILEG | 1701 GOLF RD | | 4 |
| 95 | EGVGILEG | 2425 BUSSE RD | ROLLING MEADOWS | -1 |
| 96 | EGVGILEG | 3820 GOLF RD | ELK GROVE VILLAGE | |
| 90 | EGVUILEG | Joozu GULF KD | ROLLING MEADOWS | I |

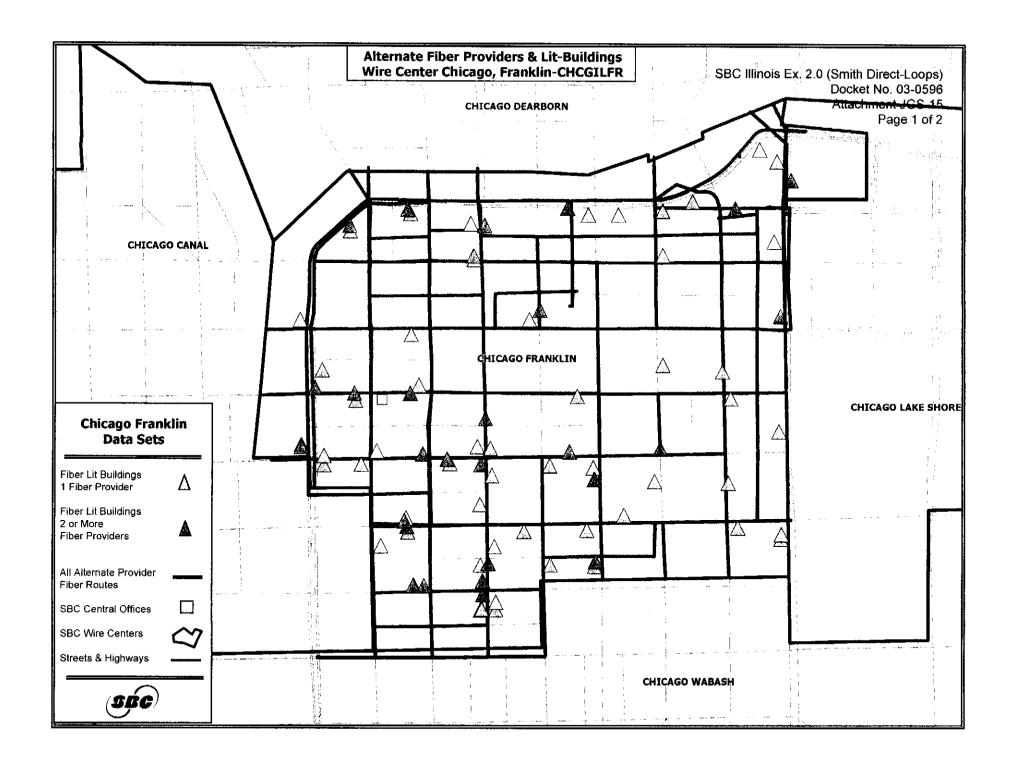
| 97 EMHRILET 1808 SWIFT DR OAK BROOK Page 3 of 3 98 HFESILWL 1325 JONES RD HOFFMAN ESTATES 99 LBRDILLM 20 N MAIN ST LOMBARD 100 LVPKILRN 9934 N ALPINE RD MACHESNEY PARK 101 NBRKILNB 2305 SANDERS RD NORTHBROOK 102 NBRKILNB 3200 ARNOLD LN NORTHBROOK 103 NBRKILNB 450 LAKE COOK RD DEERFIELD 104 OKBRILOA 1000 COMMERCE DR OAK BROOK 105 OKBRILOA 1101 W 22ND ST OAK BROOK 106 OKBRILOA 18 W048 22ND ST OAK BROOK 107 OKBRILOA 18 W048 22ND ST OAK BROOK 108 OKBRILOA 800 JORIE BLVD OAK BROOK 109 OKBRILOA 810 JORIE BLVD OAK BROOK 110 PRRGILXL 36 S FAIRVIEW AVE PARK RIDGE 111 PRRGILXL 6133 N RIVER RD DES PLAINES 112 PRRGILXL 8755 W HIGGINS RD CHICAGO | | | | | <u>1</u> ent JGS-12 |
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| 100 LVPKILRN 9934 N ALPINE RD MACHESNEY PARK 101 NBRKILNB 2305 SANDERS RD NORTHBROOK 102 NBRKILNB 3200 ARNOLD LN NORTHBROOK 103 NBRKILNB 450 LAKE COOK RD DEERFIELD 104 OKBRILOA 1000 COMMERCE DR OAK BROOK 105 OKBRILOA 1111 W 22ND ST OAK BROOK 106 OKBRILOA 18 W048 22ND ST OAKBROOK TERRACE 107 OKBRILOA 2809 BUTTERFIELD RD OAK BROOK 108 OKBRILOA 2809 BUTTERFIELD RD OAK BROOK 109 OKBRILOA 800 JORIE BLVD OAK BROOK 109 OKBRILOA 810 JORIE BLVD OAK BROOK 110 PRRGILXL 36 S FAIRVIEW AVE PARK RIDGE 111 PRRGILXL 6133 N RIVER RD DES PLAINES 112 PRRGILXL 8550 W BRYN MAWR AVE CHICAGO 113 PRRGILXL 8755 W HIGGINS RD CHICAGO 114 RCFRILRT 216 N MARIN ST ROCKFORD | 98 | HFESILWL | 1325 JONES RD | HOFFMAN ESTATES | 1 |
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| 104 OKBRILOA 1000 COMMERCE DR OAK BROOK 105 OKBRILOA 1111 W 22ND ST OAK BROOK 106 OKBRILOA 18 W048 22ND ST OAKBROOK TERRACE 107 OKBRILOA 2809 BUTTERFIELD RD OAK BROOK 108 OKBRILOA 800 JORIE BLVD OAK BROOK 109 OKBRILOA 810 JORIE BLVD OAK BROOK 110 PRRGILXL 36 S FAIRVIEW AVE PARK RIDGE 111 PRRGILXL 6133 N RIVER RD DES PLAINES 112 PRRGILXL 8550 W BRYN MAWR AVE CHICAGO 113 PRRGILXL 8755 W HIGGINS RD CHICAGO 114 RCFRILRT 216 N MAIN ST ROCKFORD 115 SCBGILCO 1400 AMERICAN LN SCHAUMBURG 116 SCBGILCO 231 N MARTINGALE RD SCHAUMBURG 117 SCBGILCO 425 N MARTINGALE RD SCHAUMBURG 118 SCBGILRS 1299 E ALGONQUIN RD SCHAUMBURG 119 SPFDILES 1 W OLD STATE CAPITOL PLZ SPRINGFIELD | 102 | NBRKILNB | 3200 ARNOLD LN | NORTHBROOK | 1 |
| 105 OKBRILOA 1111 W 22ND ST OAK BROOK 106 OKBRILOA 18 W048 22ND ST OAKBROOK TERRACE 107 OKBRILOA 2809 BUTTERFIELD RD OAK BROOK 108 OKBRILOA 800 JORIE BLVD OAK BROOK 109 OKBRILOA 810 JORIE BLVD OAK BROOK 110 PRRGILXL 36 S FAIRVIEW AVE PARK RIDGE 111 PRRGILXL 6133 N RIVER RD DES PLAINES 112 PRRGILXL 8550 W BRYN MAWR AVE CHICAGO 113 PRRGILXL 8755 W HIGGINS RD CHICAGO 114 RCFRILRT 216 N MAIN ST ROCKFORD 115 SCBGILCO 1400 AMERICAN LN SCHAUMBURG 116 SCBGILCO 231 N MARTINGALE RD SCHAUMBURG 117 SCBGILCO 425 N MARTINGALE RD SCHAUMBURG 118 SCBGILRS 1299 E ALGONQUIN RD SCHAUMBURG 119 SPFDILES 1 W OLD STATE CAPITOL PLZ SPRINGFIELD 120 SPFDILES 620 S 5TH ST SPRINGFIELD <td>103</td> <td>NBRKILNB</td> <td>450 LAKE COOK RD</td> <td>DEERFIELD</td> <td>1</td> | 103 | NBRKILNB | 450 LAKE COOK RD | DEERFIELD | 1 |
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| 121 WLNGILWG 15975 W ST 22 HWY LINCOLNSHIRE | 119 | SPFDILES | 1 W OLD STATE CAPITOL PLZ | SPRINGFIELD | 1 |
| | 120 | SPFDILES | 620 S 5TH ST | SPRINGFIELD | 1 |
| 122 WLNGILWG 540 ALLENDALE DR WHEELING | 121 | WLNGILWG | 15975 W ST 22 HWY | LINCOLNSHIRE | |
| | 122 | WLNGILWG | 540 ALLENDALE DR | WHEELING | |

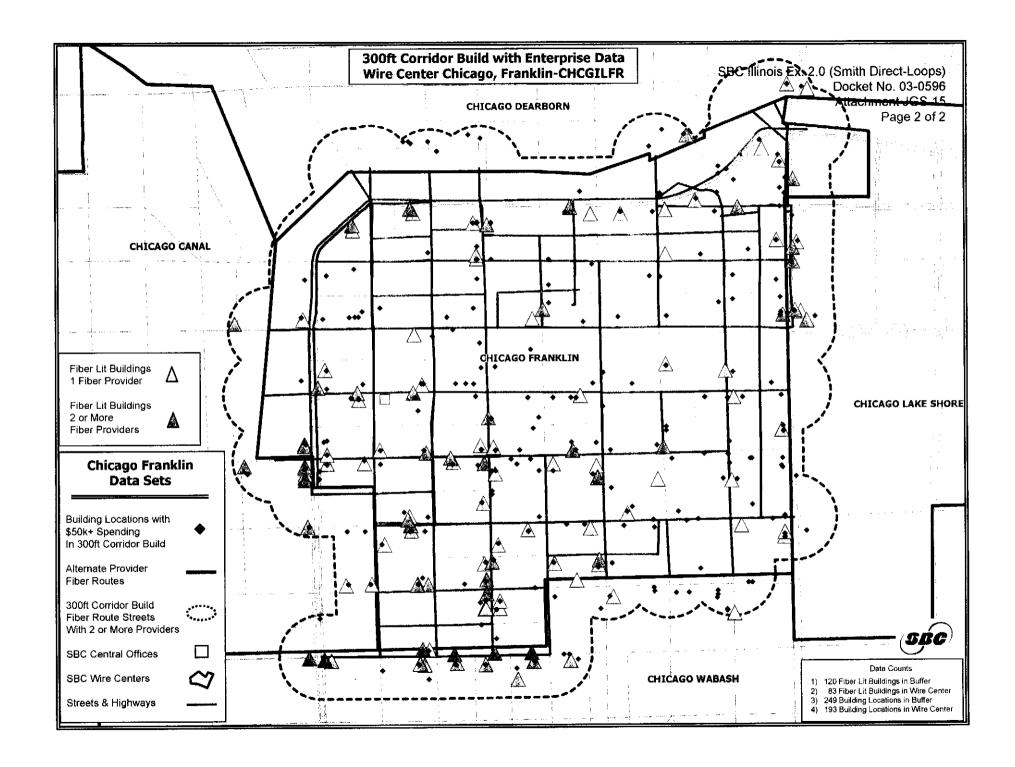


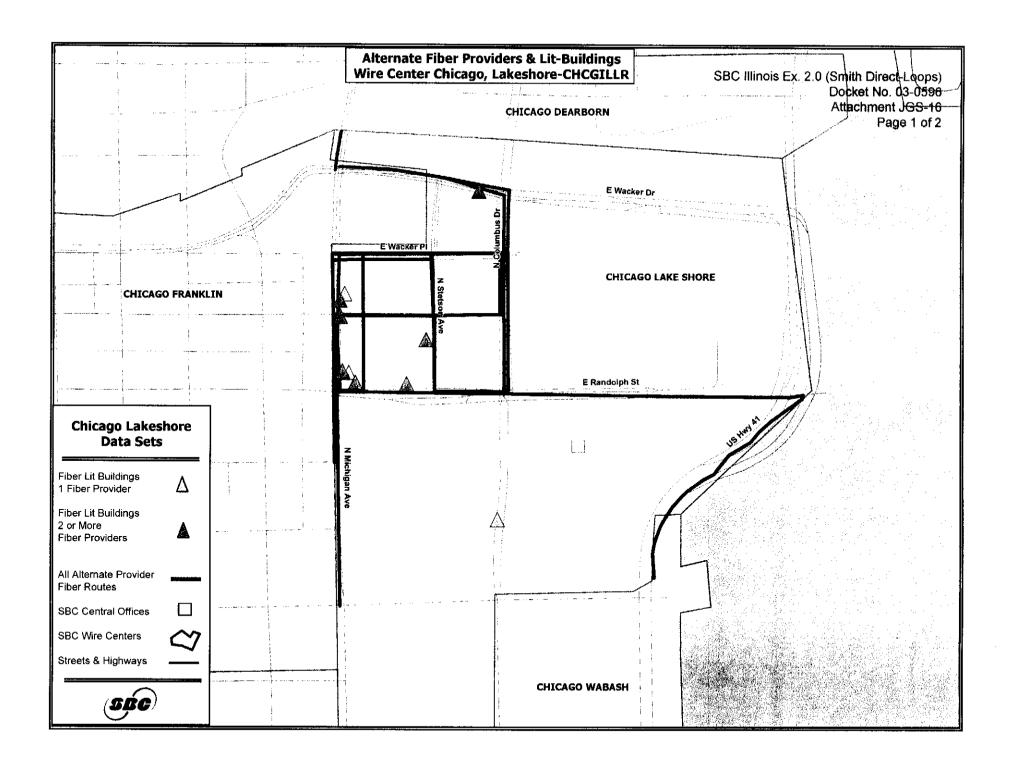


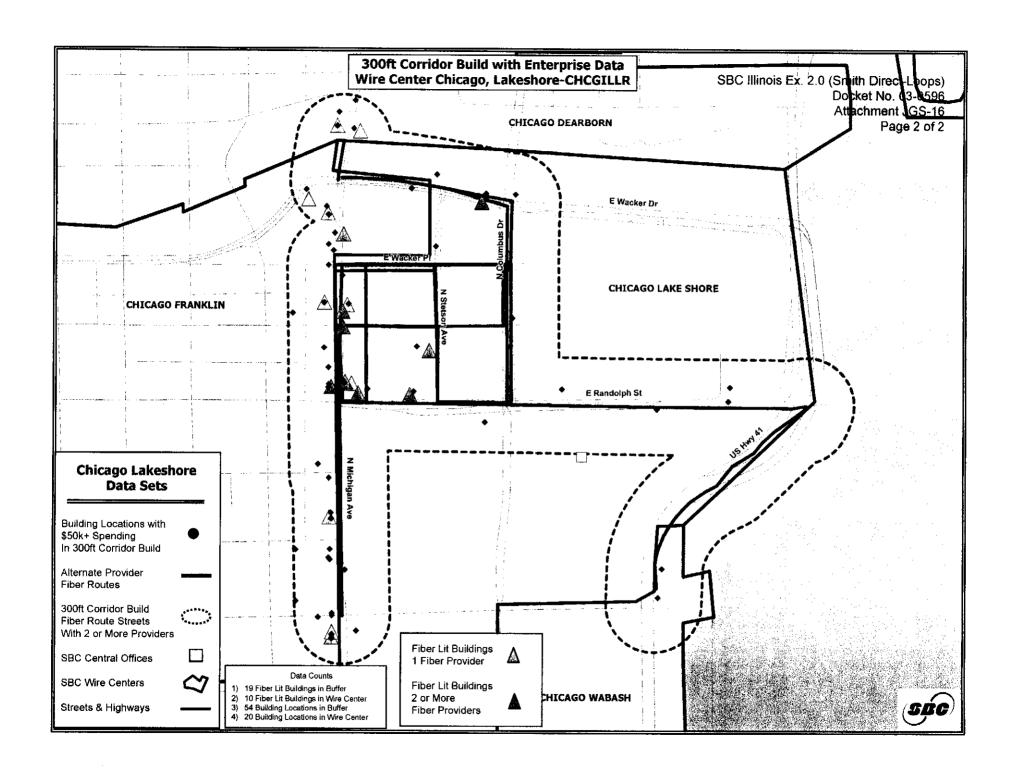


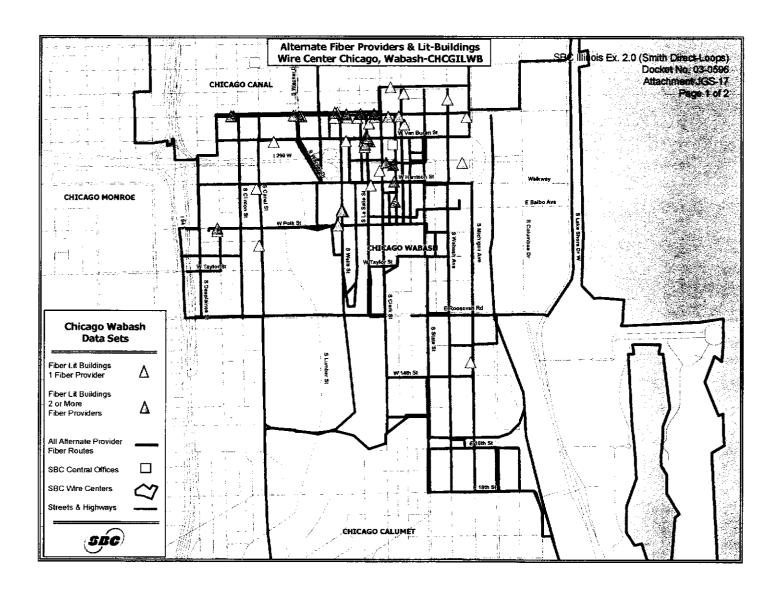


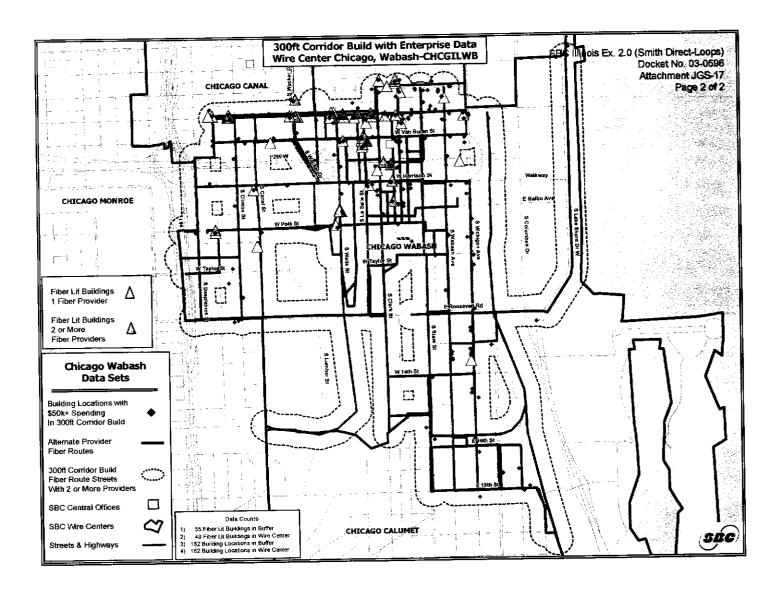


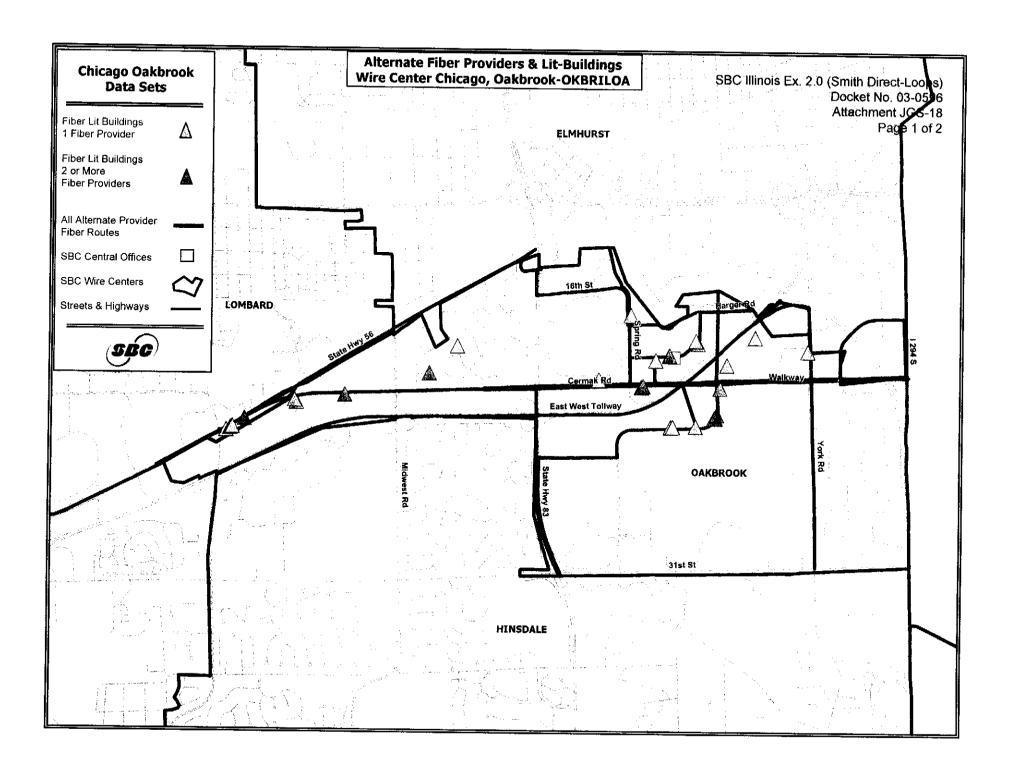


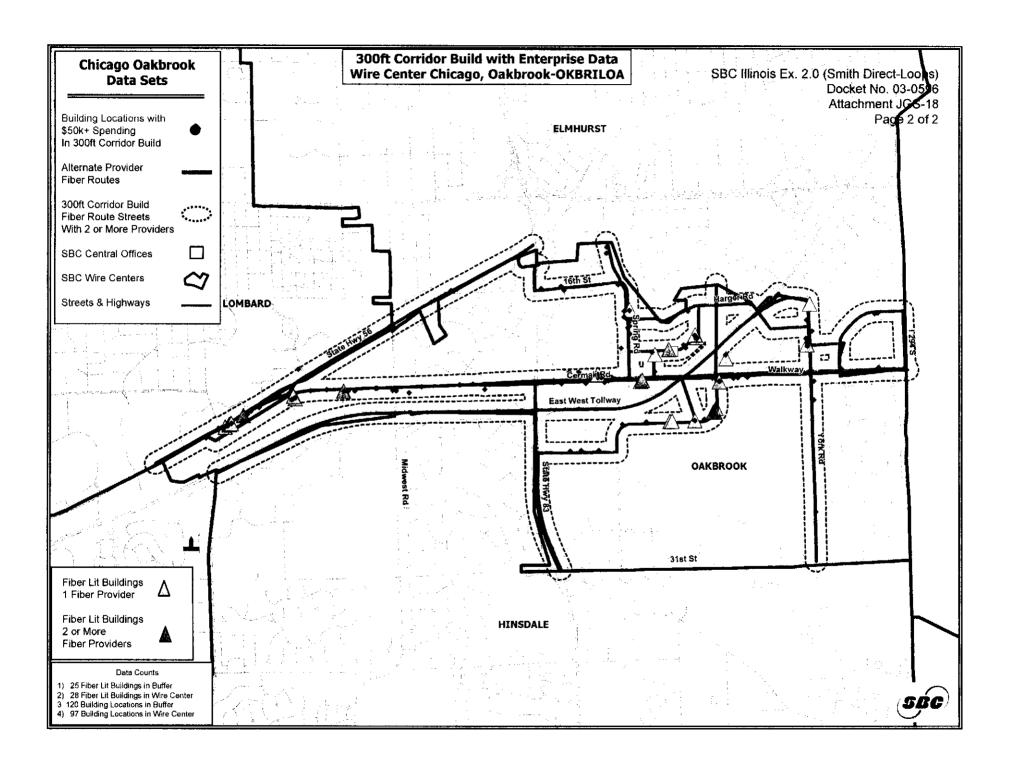












SBC Illinois Ex. 2.0 (Smith Direct-Loops) ICC Docket No. 03-0596

Attachment JGS-19

PUBLIC

List of Locations Satisfying Potential Deployment Analysis 📆 🔭 (locations with known competing carriers identified)

| | | with known competing car | ners identified) | |
|----------|----------------------|-------------------------------------------|---------------------------------------|--------------------------------------------------|
| 12.2 | Serving Wire Center | Address | Competing Carrier * | Competing Carrier Identified By: |
| 1 | CHCGILAL | 151 N MICHIGAN AVE | *** | Discovery |
| 3 | CHCGILCA CHCGILCA | 1530 S STATE ST 1718 S STATE ST | | |
| 4 | CHCGILCA | 1801 S PRAIRIE AVE | | |
| 5 | CHCGILCA | 1823 S MICHIGAN AVE | | |
| 6 | CHCGILCL | 10 S CANAL ST | | |
| 7 | CHCGILCL | 10 S RIVERSIDE PLZ | | |
| 8 | CHCGILCL | 10 S WACKER DR | **** | Discovery |
| 9 10 | CHCGILCL CHCGILCL | 100 S WACKER DR 108 S DESPLAINES ST | | |
| 11 | CHCGILCL | 111 N CANAL ST | **** | Discovery |
| 12 | CHCGILCL | 111 S HALSTED ST | | Diddevery |
| 13 | CHCGILCL | 117 N JEFFERSON ST | | |
| 14 | CHCGILCL | 118 N CLINTON ST | | |
| 15 16 | CHCGILCL CHCGILCL | 118 S CLINTON ST | | <u> </u> |
| 17 | CHCGILCL | 120 S RIVERSIDE PLZ 123 N JEFFERSON ST | | |
| 18 | CHCGILCL | 125 N HALSTED ST | <u> </u> | |
| 19 | CHCGILCL | 125 S WACKER DR | | |
| 20 | CHCGILCL | 126 N DESPLAINES ST | | |
| 21 | CHCGILCL | 130 S CANAL ST | | |
| 22 | CHCGILCL | 130 S JEFFERSON ST | **** | |
| 24 | CHCGILCL CHCGILCL | 150 N CLINTON ST 150 S WACKER DR | | Discovery |
| 25 | CHCGILCL | 156 N JEFFERSON ST | | |
| 26 | CHCGILCL | 165 N CANAL ST | | |
| 27 | CHCGILCL | 168 N CLINTON ST | | |
| 28 | CHCGILCL | 20 S WACKER DR | **** | Discovery |
| 29 30 | CHCGILCL CHCGILCL | 200 S WACKER DR | | |
| 31 | CHCGILCL | 208 S JEFFERSON ST 210 S DESPLAINES ST | | |
| 32 | | 212 S RIVERSIDE PLZ | | |
| 33 | CHCGILCL | 215 N DESPLAINES ST | | |
| 34 | CHCGILCL | 216 N JEFFERSON ST | | , |
| 35 | CHCGILCL | 216 S JEFFERSON ST | | |
| 36 | CHCGILCL CHCGILCL | 217 N JEFFERSON ST 218 N JEFFERSON ST | | |
| 38 | CHCGILCL | 222 S RIVERSIDE PLZ | *** | GeoResults |
| 39 | CHCGILCL | 224 N DESPLAINES ST | | 000.1001.0 |
| 40 | CHCGILCL | 225 S CANAL ST | | |
| 41 | CHCGILCL | 231 S JEFFERSON ST | | |
| 42 43 | CHCGILCL CHCGILCL | 250 S WACKER DR 277 W MONROE ST | | |
| 44 | CHCGILCL | 30 S WACKER DR | *** | Discovery |
| 45 | CHCGILCL | 300 S RIVERSIDE PLZ | **** | GeoResults |
| 46 | CHCGILCL | 300 W ADAMS ST | **** | Discovery |
| 47 | CHCGILCL | 309 S GREEN ST | | |
| 48 49 | | 311 W MONROE ST | *** | |
| 50 | CHCGILCL CHCGILCL | 318 W ADAMS ST 328 S JEFFERSON ST | | Discovery |
| 51 | CHCGILCL | 333 S HALSTED ST | | |
| 52 | CHCGILCL | 400 S JEFFERSON ST | | |
| 53 | CHCGILCL | 440 W RANDOLPH ST | | |
| 54 | CHCGILCL | 444 W JACKSON BLVD | | |
| 55 | CHCGILCL | 500 W MADISON ST | **** | Discovery |
| 56 57 | CHCGILCL CHCGILCL | 500 W MONROE ST 525 W MONROE ST | ************************************* | Discovery |
| 58 | | 549 W RANDOLPH ST | | Discovery |
| 59 | | 550 W JACKSON BLVD | | + |
| 60 | | 550 W WASHINGTON BLVD | | |
| 61 | | 555 W ADAMS ST | *** | GeoResults |
| 62 | | 560 W LAKE ST | | |
| 63 | | 560 W WASHINGTON BLVD | | |
| 64 65 | | 565 W RANDOLPH ST 566 W LAKE ST | | |
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| 66 | | 575 W MADISON ST | | |

SBC Illinois Ex. 2.0 (Smith Direct-Transport)
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| 198 CHCGILFR 212 W WASHINGTON ST ***** GeoResuits 199 CHCGILFR 216 W JACKSON BLVD ***** GeoResuits 200 CHCGILFR 22 W MONROE ST ***** ODISCOVERY 201 CHCGILFR 221 N LA SALLE ST ***** Discovery 203 CHCGILFR 222 N LA SALLE ST ***** GeoResuits 204 CHCGILFR 222 W ADAMS ST ***** GeoResuits 205 CHCGILFR 225 N LA SALLE ST ***** GeoResuits 206 CHCGILFR 225 W WASHINGTON ST ***** GeoResuits 207 CHCGILFR 227 W MONROE ST ***** GeoResuits 208 CHCGILFR 228 N LA SALLE ST Discovery 210 CHCGILFR 230 N MICHIGAN AVE ***** Discovery 211 CHCGILFR 230 W MONROE ST ***** GeoResuits 212 CHCGILFR 231 S LA SALLE ST ***** Discovery 213 CHCGILFR 231 S LA SALLE ST Discovery | - | | | | |
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| 200 CHCGILFR 22 W MONROE ST 201 CHCGILFR 221 N LA SALLE ST 202 CHCGILFR 221 S LA SALLE ST 203 CHCGILFR 222 N LA SALLE ST 204 CHCGILFR 222 W ADAMS ST 205 CHCGILFR 225 N LA SALLE ST 206 CHCGILFR 225 W WASHINGTON ST 207 CHCGILFR 227 W MONROE ST 208 CHCGILFR 228 N LA SALLE ST 209 CHCGILFR 230 N MICHIGAN AVE 210 CHCGILFR 230 S LA SALLE ST 211 CHCGILFR 230 W MONROE ST 212 CHCGILFR 231 S LA SALLE ST 213 CHCGILFR 231 S LA SALLE ST 213 CHCGILFR 231 S LA SALLE ST 213 CHCGILFR 231 S LA SALLE ST | | | | | GeoResuits |
| 201 CHCGILFR 221 N LA SALLE ST 202 CHCGILFR 221 S LA SALLE ST 203 CHCGILFR 222 N LA SALLE ST Discovery 204 CHCGILFR 222 W ADAMS ST GeoResults 205 CHCGILFR 225 N LA SALLE ST GeoResults 206 CHCGILFR 227 W MONROE ST GeoResults 207 CHCGILFR 227 W MONROE ST GeoResults 209 CHCGILFR 228 N LA SALLE ST Discovery 210 CHCGILFR 230 S LA SALLE ST GeoResults 211 CHCGILFR 230 W MONROE ST GeoResults 212 CHCGILFR 231 S LA SALLE ST Discovery 213 CHCGILFR 231 S LA SALLE ST Discovery | | | | | |
| 202 CHCGILFR 221 S LA SALLE ST Discovery 203 CHCGILFR 222 N LA SALLE ST CHCGILFR Discovery 204 CHCGILFR 222 W ADAMS ST GeoResults 205 CHCGILFR 225 N LA SALLE ST GeoResults 206 CHCGILFR 227 W MONROE ST GeoResults 208 CHCGILFR 228 N LA SALLE ST Discovery 209 CHCGILFR 230 N MICHIGAN AVE Discovery 210 CHCGILFR 230 S LA SALLE ST GeoResults 211 CHCGILFR 230 W MONROE ST GeoResults 212 CHCGILFR 231 S LA SALLE ST Discovery 213 CHCGILFR 233 E WACKER DR Discovery | | | | | L |
| 203 CHCGILFR 222 N LA SALLE ST ***** Discovery 204 CHCGILFR 222 W ADAMS ST ***** GeoResults 205 CHCGILFR 225 N LA SALLE ST ***** GeoResults 206 CHCGILFR 225 W WASHINGTON ST ***** GeoResults 207 CHCGILFR 227 W MONROE ST ***** GeoResults 208 CHCGILFR 228 N LA SALLE ST Discovery 210 CHCGILFR 230 N MICHIGAN AVE ***** Discovery 211 CHCGILFR 230 W MONROE ST ***** GeoResults 212 CHCGILFR 231 S LA SALLE ST ***** GeoResults 213 CHCGILFR 231 S LA SALLE ST Discovery | | | | | |
| 204 CHCGILFR 222 W ADAMS ST ***** GeoResults 205 CHCGILFR 225 N LA SALLE ST ***** GeoResults 206 CHCGILFR 227 W MONROE ST ***** GeoResults 208 CHCGILFR 228 N LA SALLE ST Discovery 209 CHCGILFR 230 N MICHIGAN AVE ***** Discovery 210 CHCGILFR 230 S LA SALLE ST ***** GeoResults 211 CHCGILFR 230 W MONROE ST ***** GeoResults 212 CHCGILFR 231 S LA SALLE ST ***** Discovery 213 CHCGILFR 233 E WACKER DR Discovery | 203 | | | *** | Discovery |
| 206 CHCGILFR 225 W WASHINGTON ST 207 CHCGILFR 227 W MONROE ST ***** GeoResults 208 CHCGILFR 228 N LA SALLE ST Discovery 209 CHCGILFR 230 N MICHIGAN AVE **** Discovery 210 CHCGILFR 230 S LA SALLE ST GeoResults 211 CHCGILFR 230 W MONROE ST **** GeoResults 212 CHCGILFR 231 S LA SALLE ST Discovery 213 CHCGILFR 233 E WACKER DR Discovery | | | 222 W ADAMS ST | **** | |
| 207 CHCGILFR 227 W MONROE ST ***** GeoResults 208 CHCGILFR 228 N LA SALLE ST Discovery 209 CHCGILFR 230 N MICHIGAN AVE ***** Discovery 210 CHCGILFR 230 S LA SALLE ST GeoResults 211 CHCGILFR 230 W MONROE ST ***** GeoResults 212 CHCGILFR 231 S LA SALLE ST Discovery 213 CHCGILFR 233 E WACKER DR Discovery | | | | | |
| 208 CHCGILFR 228 N LA SALLE ST 209 CHCGILFR 230 N MICHIGAN AVE **** Discovery 210 CHCGILFR 230 S LA SALLE ST CHCGILFR 211 CHCGILFR 230 W MONROE ST **** GeoResults 212 CHCGILFR 231 S LA SALLE ST **** Discovery 213 CHCGILFR 233 E WACKER DR **** Discovery | _ | | | | |
| 209 CHCGILFR 230 N MICHIGAN AVE **** Discovery 210 CHCGILFR 230 S LA SALLE ST **** GeoResults 211 CHCGILFR 230 W MONROE ST **** GeoResults 212 CHCGILFR 231 S LA SALLE ST **** Discovery 213 CHCGILFR 233 E WACKER DR **** Discovery | | | | **** | GeoResults |
| 210 CHCGILFR 230 S LA SALLE ST 211 CHCGILFR 230 W MONROE ST **** GeoResults 212 CHCGILFR 231 S LA SALLE ST **** Discovery 213 CHCGILFR 233 E WACKER DR **** | - | ··· | | **** | Pr's see |
| 211 CHCGILFR 230 W MONROE ST **** GeoResults 212 CHCGILFR 231 S LA SALLE ST **** Discovery 213 CHCGILFR 233 E WACKER DR Discovery | | | | | Discovery |
| 212 CHCGILFR 231 S LA SALLE ST | | | | **** | GeoResulte |
| 213 CHCGILFR 233 E WACKER DR | | | | 1 | |
| 214 CHCGILFR 25 E WASHINGTON ST | | CHCGILFR | | | |
| | 214 | CHCGILFR | 25 E WASHINGTON ST | | |

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| | | | | Page 4 |
|------------|----------------------|----------------------------------------|--------------------------------------------------|--------------|
| 215 | CHCGILFR | 27 É MONROE ST | | |
| 216 | CHCGILFR | 28 N CLARK ST | | |
| 217 | CHCGILFR | 29 E MADISON ST | | |
| 218 | CHCGILFR | 29 N WACKER DR | | |
| 219 | CHCGILFR | 29 S LA SALLE ST | | |
| 220 | CHCGILFR | 3 FIRST NATIONAL PLZ | | |
| 221 | CHCGILFR | 30 E ADAMS ST | | |
| 222 | CHCGILFR | 30 E LAKE ST | **** | |
| 224 | CHCGILFR | 30 N LA SALLE ST | | GeoResults |
| 225 | CHCGILFR CHCGILFR | 30 N MICHIGAN AVE 30 S MICHIGAN AVE | | |
| 226 | CHCGILFR | 30 W WASHINGTON ST | | |
| 227 | CHCGILFR | 300 W WASHINGTON ST | <u>.</u> | |
| 228 | CHCGILFR | 303 W MADISON ST | 2*** | GeoResults |
| 229 | CHCGILFR | 304 W RANDOLPH ST | | Georesulis |
| 230 | CHCGILFR | 307 N MICHIGAN AVE | | |
| 231 | CHCGILFR | 308 W RANDOLPH ST | | |
| 232 | CHCGILFR | 309 W WASHINGTON ST | *** | Discovery |
| 233 | CHCGILFR | 311 W WASHINGTON ST | | Discovery |
| 234 | CHCGILFR | 312 W RANDOLPH ST | <u></u> | - |
| 235 | CHCGILFR | 316 N MICHIGAN AVE | | |
| 236 | CHCGILFR | 32 W RANDOLPH ST | <u> </u> | - |
| 237 | CHCGILFR | 320 N MICHIGAN AVE | | |
| 238 | CHCGILFR | 33 N DEARBORN ST | **** | GeoResults |
| 239 | CHCGILFR | 33 N LA SALLE ST | | |
| 240 | CHCGILFR | 33 W MONROE ST | | |
| 241 | CHCGILFR | 333 N MICHIGAN AVE | | |
| 242 | CHCGILFR | 333 W LAKE ST | | |
| 243 | CHCGILFR | 333 W WACKER DR | <u> </u> | |
| 244 | CHCGILFR | 35 E WACKER DR | *** | Discovery |
| 245 | CHCGILFR | 35 W WACKER DR | *** | Discovery |
| 246 | CHCGILFR | 36 S WABASH AVE | | |
| 247 | CHCGILFR | 360 N MICHIGAN AVE | *** | GeoResults |
| 248 | CHCGILFR | 37 S WABASH AVE | **** | Discovery |
| 249 | CHCGILFR | 38 S DEARBORN ST | | |
| 250 | CHCGILFR | 39 S LA SALLE ST | <u> </u> | |
| 251 | CHCGILFR | 40 N WELLS ST | | |
| 252 | CHCGILFR | 5 N WABASH AVE | | |
| 253 | CHCGILFR | 5 S WABASH AVE | | |
| 254 | CHCGILFR | 50 S LASALLE ST | | |
| 255 | CHCGILFR | 50 W WASHINGTON ST | | |
| 256 | CHCGILFR | 55 E MONROE ST | **** | Discovery |
| 257 | CHCGILFR | 55 W MONROE ST | *** | GeoResults |
| 258 | CHCGILFR | 55 W WACKER DR | **** | Discovery |
| 259 | CHCGILFR | 6 E MONROE ST | | |
| 260 | CHCGILFR | 6 N MICHIGAN AVE | | |
| 261 | CHCGILFR | 60 W RANDOLPH ST | | |
| 262 | CHCGILFR | 63 E ADAMS ST | | |
| 263 | CHCGILFR | 65 E MADISON ST | | |
| 264 | CHCGILFR | 65 E WACKER DR | | |
| 265 | CHCGILFR | 65 E WACKER PL | | |
| 266 | CHCGILFR | 67 E ADAMS ST | | |
| 267 | CHCGILFR | 67 E MADISON ST | | |
| 268 | CHCGILFR | 68 É WACKER DR | | |
| 269 270 | CHCGILFR | 68 E WACKER PL | | |
| 271 | CHCGILER | 69 W WASHINGTON ST | | ļ |
| 272 | CHCGILER | 70 E LAKE ST | | |
| 273 | CHCGILER | 70 W MADISON ST | | |
| 274 | CHCGILFR CHCGILFR | 71 E WACKER DR 75 E WACKER DR | | |
| 275 | CHCGILFR | 76 E MONROE ST | | |
| 276 | CHCGILFR | 77 S DEARBORN ST | | |
| 277 | CHCGILFR | 77 W WACKER DR | | |
| 278 | CHCGILFR | 77 W WACKER DR | | |
| 279 | CHCGILFR | 78 E WASHINGTON ST | | |
| 280 | CHCGILFR | 79 W MONROE ST | | |
| 281 | CHCGILFR | 8 E WACKER DR | | |
| 282 | CHCGILFR | 8 S MICHIGAN AVE | | |
| 283 | CHCGILFR | 9 N WABASH AVE | | |
| 284 | CHCGILFR | 99 W WASHINGTON ST | | |
| | | | *** | Diagonary |
| | CHCCII GO | | | |
| 285 | CHCGILGO | 111 N WABASH AVE | - | Discovery |
| 285 286 | CHCGILID | 1 E IBM PLZ | | Discovery |
| 285 | | L | | Discovery |

| 200 | OUOC" IS | Liza IV Control | | Page 5 |
|------------|----------------------|----------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| 289 | CHCGILID CHCGILID | 108 W GRAND AVE | | |
| 291 | CHCGILID | 11 E ILLINOIS ST | | <u> </u> |
| 292 | CHCGILID | 11 W ILLINOIS ST | | |
| 293 | CHCGILID | 110 W HUBBARD ST | | |
| 294 | CHCGILID | 114 W ILLINOIS ST | | |
| 295 | CHCGILID | 116 W ILLINOIS ST | | |
| 296 | CHCGILID | 116 W KINZIE ST | | |
| 297 298 | CHCGILID | 118 W GRAND AVE | | |
| 299 | CHCGILID CHCGILID | 119 W HUBBARD ST 138 MERCHANDISE MART PLZ | | |
| 300 | CHCGILID | 15 W HUBBARD ST | | |
| 301 | CHCGILID | 154 W HUBBARD ST | | |
| 302 | CHCGILID | 159 E OHIO ST | | |
| 303 | CHCGILID | 159 W KINZIE ST | | |
| 304 | CHCGILID | 160 E ILLINOIS ST | | |
| 305 | CHCGILID | 161 E GRAND AVE | | |
| 306 | CHCGILID | 162 W GRAND AVE | | |
| 307 308 | CHCGILID | 162 W HUBBARD ST | | |
| 309 | CHCGILID CHCGILID | 17 W GRAND AVE 19 E OHIO ST | | |
| 310 | CHCGILID | 20 W HUBBARD ST | | |
| 311 | CHCGILID | 20 W KINZIE ST | | |
| 312 | CHCGILID | 200 W HUBBARD ST | | - |
| 313 | CHCGILID | 200 WORLD TRADE CTR | | |
| 314 | CHCGILID | 210 W ILLINOIS ST | | |
| 315 | CHCGILID | 211 E OHIO ST | | |
| 316 | CHCGILID | 215 W OHIO ST | | |
| 317 | CHCGILID | 220 W KINZIE ST | | |
| 319 | CHCGILID CHCGILID | 222 MERCHANDISE MART PLZ 222 W HUBBARD ST | | |
| 320 | CHCGILID | 222 W KINZIE ST | | |
| 321 | CHCGILID | 223 W OHIO ST | | |
| 322 | CHCGILID | 225 W HUBBARD ST | | |
| 323 | CHCGILID | 225 W ILLINOIS ST | | |
| 324 | CHCGILID | 225 W OHIO ST | | |
| 325 | CHCGILID | 230 MERCHANDISE MART PLZ | | |
| 326 327 | CHCGILID CHCGILID | 25 W HUBBARD ST | | |
| 328 | CHCGILID | 300 E NORTH WATER ST | | |
| 329 | CHCGILID | 300 W HUBBARD ST | | |
| 330 | CHCGILID | 301 E NORTH WATER ST | *** | GeoResults |
| 331 | CHCGILID | 303 E OHIO ST | **** | GeoResults |
| 332 | CHCGILID | 320 N DEARBORN ST | | |
| 333 | CHCGILID | 320 W ILLINOIS ST | | |
| 334 | CHCGILID | 321 N CLARK ST | | |
| 335 336 | CHCGILID CHCGILID | 322 E ILLINOIS ST | | |
| 337 | CHCGILID | 325 N LA SALLE DR 325 N WELLS ST | | |
| 338 | CHCGILID | 33 W GRAND AVE | | |
| 339 | CHCGILID | 330 N WABASH AVE | | |
| 340 | CHCGILID | 333 N DEARBORN ST | | |
| 341 | CHCGILID | 333 W HUBBARD ST | | |
| 342 | CHCGILID | 350 N CLARK ST | **** | Discovery |
| 343 | CHCGILID | 350 N LA SALLE DR | | |
| 344 345 | CHCGILID | 350 W HUBBARD ST | | |
| 346 | CHCGILID CHCGILID | 350 W KINZIE ST 351 W HUBBARD ST | | |
| 347 | CHCGILID | 36 E GRAND AVE | | |
| 348 | CHCGILID | 360 W ILLINOIS ST | | |
| 349 | CHCGILID | 400 N MCCLURG CT | | |
| 350 | CHCGILID | 400 N MICHIGAN AVE | **** | Discovery |
| 351 | CHCGILID | 400 N STATE ST | | |
| 352 | CHCGILID | 400 N WELLS ST | | |
| 353 | CHCGILID | 401 E ILLINOIS ST | | |
| 354 | CHCGILID | 401 N FRANKLIN ST | | |
| 355 356 | CHCGILID | 401 N MICHIGAN AVE | **** | Discovery |
| 357 | CHCGILID CHCGILID | 401 N WABASH AVE 405 N WABASH AVE | | GeoResults |
| 358 | CHCGILID | 410 N MICHIGAN AVE | - | |
| 359 | CHCGILID | 410 W GRAND AVE | | <u> </u> |
| 360 | CHCGILID | 414 N ORLEANS ST | | |
| 361 | CHCGILID | 415 N DEARBORN ST | | <u> </u> |
| 362 | CHCGILID | 415 N LA SALLE DR | | 1 |
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| | | , | | Page 6 |
|-----|----------|--------------------------|--------------------------------------------------|--------------------------------------------------|
| 363 | CHCGILID | 415 N STATE ST | | |
| 364 | CHCGILID | 420 N WABASH AVE | | |
| 365 | CHCGILID | 420 W GRAND AVE | | |
| 366 | CHCGILID | 429 W OHIO ST | | |
| 367 | CHCGILID | 43 E OHIO ST | | |
| 368 | CHCGILID | 430 N MICHIGAN AVE | **** | GeoResults |
| 369 | CHCGILID | 432 N CLARK ST | · · · · · · · · · · · · · · · · · · · | |
| 370 | CHCGILID | 435 E ILLINOIS ST | | |
| 371 | CHCGILID | 435 N LA SALLE DR | | |
| 372 | CHCGILID | 44 E GRAND AVE | | |
| 373 | CHCGILID | 440 N ORLEANS ST | | |
| 374 | CHCGILID | 440 N WABASH AVE | | |
| 375 | CHCGILID | 440 N WELLS ST | - | |
| 376 | CHCGILID | 444 N MICHIGAN AVE | | |
| 377 | CHCGILID | 444 N ORLEANS ST | | |
| 378 | | | | <u></u> |
| | CHCGILID | 444 N WABASH AVE | <u> </u> | |
| 379 | CHCGILID | 444 N WELLS ST | | |
| 380 | CHCGILID | 445 E OHIO ST | | |
| 381 | CHCGILID | 445 N LA SALLE DR | | |
| 382 | CHCGILID | 445 N WELLS ST | | |
| 383 | CHCGILID | 449 N CLARK ST | | |
| 384 | CHCGILID | 449 N WELLS ST | 1 | |
| 385 | CHCGILID | 450 N CITYFRONT PLAZA DR | | |
| 386 | CHCGILID | 454 N COLUMBUS DR | *** | GeoResults |
| 387 | CHCGILID | 455 E ILLINOIS ST | *** | GeoResults |
| 388 | CHCGILID | 455 N CITY FRONT PLZ | T | |
| 389 | CHCGILID | 455 N CITYFRONT PLAZA DR | | |
| 390 | CHCGILID | 500 N CLARK ST | | |
| 391 | CHCGILID | 500 N DEARBORN ST | | |
| 392 | CHCGILID | 500 N KINGSBURY ST | † | |
| 393 | CHCGILID | 500 N MICHIGAN AVE | | 1 |
| 394 | CHCGILID | 500 N WELLS ST | | |
| 395 | CHCGILID | 501 N CLARK ST | | |
| 396 | CHCGILID | 505 N LA SALLE DR | | |
| 397 | CHCGILID | 505 N MICHIGAN AVE | | |
| 398 | CHCGILID | 506 N CLARK ST | | |
| 399 | CHCGILID | 512 N MCCLURG CT | <u> </u> | |
| 400 | CHCGILID | 515 N DEARBORN ST | · · · · · · · · · · · · · · · · · · · | |
| 401 | CHCGILID | | - | |
| 402 | | 515 N LA SALLE DR | **** | |
| 402 | CHCGILID | 515 N STATE ST | | GeoResults |
| | CHCGILID | 520 N MICHIGAN AVE | | |
| 404 | CHCGILID | 535 N MICHIGAN AVE | | |
| 405 | CHCGILID | 54 W HUBBARD ST | | |
| 406 | CHCGILID | 540 N DEARBORN ST | | |
| 407 | CHCGILID | 540 N LA SALLE DR | | |
| 408 | CHCGILID | 540 N MICHIGAN AVE | *** | GeoResults |
| 409 | CHCGILID | 541 N FAIRBANKS CT | | |
| 410 | CHCGILID | 551 N MICHIGAN AVE | | |
| 411 | CHCGILID | 57 W GRAND AVE | | |
| 412 | CHCGILID | 6 W HUBBARD ST | | |
| 413 | CHCGILID | 70 W HUBBARD ST | | |
| 414 | CHCGILID | 9 W HUBBARD ST | | |
| 415 | CHCGILJB | 11 S LA SALLE ST | 大均安安 | Discovery |
| 416 | CHCGILLR | 111 E WACKER DR | **** | Discovery |
| 417 | CHCGILLR | 111 S MICHIGAN AVE | *** | Discovery |
| 418 | CHCGILLR | 12 S MICHIGAN AVE | | Discovery |
| 419 | CHCGILLR | 130 E RANDOLPH ST | | |
| 420 | CHCGILLR | 155 N HARBOR DR | | |
| 421 | CHCGILLR | | <u> </u> | |
| 422 | | 155 N MICHIGAN AVE | | |
| - | CHCGILLR | 175 N HARBOR DR | | |
| 423 | CHCGILLR | 180 N STETSON AVE | | |
| 424 | CHCGILLR | 200 E RANDOLPH ST | | |
| 425 | CHCGILLR | 200 N COLUMBUS DR | | |
| 426 | CHCGILLR | 205 N MICHIGAN AVE | | |
| 427 | CHCGILLR | 211 N STETSON AVE | | |
| 428 | CHCGILLR | 225 N MICHIGAN AVE | | |
| 429 | CHCGILLR | 233 N MICHIGAN AVE | *** | GeoResults |
| 430 | CHCGILLR | 300 E RANDOLPH ST | | - |
| 431 | CHCGILLR | 303 E WACKER DR | T | |
| 432 | CHCGILLR | 323 E WACKER DR | | |
| 433 | CHCGILLR | 360 E RANDOLPH ST | | |
| 434 | CHCGILLR | 400 E RANDOLPH ST | | |
| 435 | CHCGILMO | 131 N GREEN ST | | |
| 436 | CHCGILMO | | | |
| 430 | CHUGILMO | 182 N HALSTED ST | <u> </u> | l |

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| 437 | CHCGILMO | 330 N JEFFERSON ST | , | | |
| 438 | CHCGILMO | 541 W ROOSEVELT RD | | | |
| 439 | CHCGILMO | 555 W ROOSEVELT RD | | | |
| 440 | CHCGILMO | 600 W KINZIE ST | | | |
| 441 | CHCGILMO | 800 W RANDOLPH ST | | | |
| 442 | CHCGILMO | 805 W RANDOLPH ST | | | |
| 443 | CHCGILMO | 806 W WASHINGTON BLVD | | | |
| 445 | CHCGILMO | 812 W VAN BUREN ST 822 W WASHINGTON BLVD | | | |
| 446 | CHCGILNQ | 566 W ADAMS ST | **** | Diagouage | |
| 447 | CHCGILPF | 55 E WASHINGTON ST | **** | Discovery Discovery | |
| 448 | CHCGILSU | 211 E ONTARIO ST | | Discovery | |
| 449 | CHCGILSU | 212 E OHIO ST | - | | |
| 450 | CHCGILSU | 215 W ONTARIO ST | | | |
| 451 | CHCGILSU | 216 W OHIO ST | | | |
| 452 | CHCGILSU | 226 E ONTARIO ST | | | |
| 453 | CHCGILSU | 230 E OHIO ST | | | |
| 454 | CHCGILSU | 232 E OHIO ST | | | |
| 455 | CHCGILSU | 233 E ONTARIO ST | | | |
| 456 | CHCGILSU | 320 W OHIO ST | | | |
| 457 | CHCGILSU | 363 W ONTARIO ST | | | |
| 458 | CHCGILSU | 4 E OHIO ST | | <u> </u> | |
| 459 | CHCGILSU | 400 E OHIO ST | | | |
| 460 | CHCGILSU | 401 E ONTARIO ST | | | |
| 461 | CHCGILSU | 401 W ONTARIO ST | | | |
| 462 | CHCGILSU | 411 W ONTARIO ST | | | |
| 463 | CHCGILSU CHCGILSU | 434 W ONTARIO ST | | | |
| 465 | CHCGILSU | 600 N DEARBORN ST | | | |
| 466 | CHCGILSU | 600 N MCCLURG CT 600 N MICHIGAN AVE | - | | |
| 467 | CHCGILSU | 605 N MICHIGAN AVE | | | |
| 468 | CHCGILSU | 609 N WELLS ST | | · | |
| 469 | CHCGILSU | 612 N MICHIGAN AVE | | | |
| 470 | CHCGILSU | 615 N WABASH AVE | | | |
| | | 617 N STATE ST | · · · · · · · · · · · · · · · · · · · | | _ |
| 471 | CHCGILSU | (OI/ NOIALES) | | • | |
| 471 472 | CHCGILSU CHCGILSU | 625 N MICHIGAN AVE | | | |
| | | | *** | Discovery | |
| 472 | CHCGILSU | 625 N MICHIGAN AVE | **** | Discovery Discovery | |
| 472 473 | CHCGILSU CHCGILTB | 625 N MICHIĞAN AVE 435 N MICHIGAN AVE | ļ | | |
| 472 473 474 475 476 | CHCGILSU CHCGILTB CHCGILTM | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE | ļ | | |
| 472 473 474 475 476 477 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB CHCGILWB CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST | ļ | | |
| 472 473 474 475 476 477 478 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB CHCGILWB CHCGILWB CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST | **** | | |
| 472 473 474 475 476 477 478 479 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD | ļ | | |
| 472 473 474 475 476 477 478 479 480 | CHCGILSU CHCGILTB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST | **** | Discovery | |
| 472 473 474 475 476 477 478 479 480 481 | CHCGILSU CHCGILTB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE | **** | Discovery | |
| 472 473 474 475 476 477 478 479 480 481 | CHCGILSU CHCGILTB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE | **** | Discovery | |
| 472 473 474 475 476 477 478 479 480 481 482 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST | **** | Discovery | |
| 472 473 474 475 476 477 478 479 480 481 482 483 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE | **** | Discovery | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 111 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE | **** | Discovery | |
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| 472 473 474 475 476 477 478 479 480 481 482 483 484 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE | **** | Discovery | |
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| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE | **** | Discovery | |
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| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1316 S MICHIGAN AVE 1315 S WABASH AVE 1325 S WABASH AVE 1326 S MICHIGAN AVE | **** | Discovery | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1325 S WABASH AVE 1333 S WABASH AVE 1333 S WABASH AVE 1349 S WABASH AVE | **** | Discovery | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 122 S MICHIGAN AVE 1334 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1316 S MICHIGAN AVE 1315 S WABASH AVE 1325 S WABASH AVE 1333 S WABASH AVE 1349 S WABASH AVE | **** | Discovery | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 111 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1330 S LAKE SHORE DR 1300 S LAKE SHORE DR 1301 S MICHIGAN AVE 1316 S MICHIGAN AVE 1312 S MICHIGAN AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1317 S WABASH AVE 1340 S MICHIGAN AVE 1340 S MICHIGAN AVE 1340 S MICHIGAN AVE 1340 S MICHIGAN AVE | **** | Discovery | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1312 S MICHIGAN AVE 1312 S MICHIGAN AVE 1312 S MICHIGAN AVE 1314 S MICHIGAN AVE 1315 S MICHIGAN AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1325 S WABASH AVE 1340 S MICHIGAN AVE 1353 S WABASH AVE 1349 S WABASH AVE 1353 S WABASH AVE 1353 S WABASH AVE | **** | Discovery Discovery GeoResults | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1317 S MICHIGAN AVE 1318 S MICHIGAN AVE 1319 S WABASH AVE 1319 S WICHIGAN AVE 13118 S MICHIGAN AVE 13119 S MICHIGAN AVE 13119 S MICHIGAN AVE 13119 S WABASH AVE 1325 S WABASH AVE 1340 S MICHIGAN AVE 1341 S WABASH AVE 1341 S WABASH AVE 1342 S WABASH AVE 1343 S WABASH AVE 1345 S WABASH AVE 1353 S WABASH AVE 145 JACKSON BLVD 1401 S STATE ST | **** | Discovery | |
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| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1316 S MICHIGAN AVE 1315 S WABASH AVE 1325 S WABASH AVE 1326 S MICHIGAN AVE 1333 S WABASH AVE 1349 S WABASH AVE 1353 S WABASH AVE 1349 S WABASH AVE 1353 S WABASH AVE 145 JACKSON BLVD 1401 S STATE ST 141 W JACKSON BLVD 1430 S MICHIGAN AVE | **** | Discovery Discovery GeoResults | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1316 S MICHIGAN AVE 1315 S WABASH AVE 1326 S MICHIGAN AVE 1333 S WABASH AVE 1333 S WABASH AVE 1349 S WABASH AVE 1349 S WABASH AVE 1353 S WABASH AVE 145 S S WABASH AVE 1418 S STATE ST 141 W JACKSON BLVD 1430 S MICHIGAN AVE 1430 S MICHIGAN AVE | **** | Discovery Discovery GeoResults | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1312 S MICHIGAN AVE 1312 S MICHIGAN AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1317 S WABASH AVE 1326 S MICHIGAN AVE 1326 S MICHIGAN AVE 1333 S WABASH AVE 1340 S MICHIGAN AVE 1349 S WABASH AVE 1349 S WABASH AVE 1440 S MICHIGAN AVE 1441 S STATE ST 1411 W JACKSON BLVD 14430 S MICHIGAN AVE 1444 S MICHIGAN AVE 1445 S MICHIGAN AVE | **** | Discovery Discovery GeoResults | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 122 S MICHIGAN AVE 1334 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1316 S MICHIGAN AVE 1312 S MICHIGAN AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1317 S WABASH AVE 1326 S WABASH AVE 1333 S WABASH AVE 1349 S WABASH AVE 1349 S WABASH AVE 1449 S WABASH AVE 1441 S MICHIGAN AVE 1441 S MICHIGAN AVE 1444 S MICHIGAN AVE 1444 S MICHIGAN AVE 1445 S STATE ST 1455 S MICHIGAN AVE 1555 S MICHIGAN AVE | **** | Discovery Discovery GeoResults | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1312 S MICHIGAN AVE 1312 S MICHIGAN AVE 1312 S MICHIGAN AVE 1314 S MICHIGAN AVE 1315 S WABASH AVE 1325 S WABASH AVE 1326 S MICHIGAN AVE 1333 S WABASH AVE 1340 S MICHIGAN AVE 1340 S MICHIGAN AVE 1341 S STATE ST 141 W JACKSON BLVD 1430 S MICHIGAN AVE 1445 S MICHIGAN AVE 1455 S MICHIGAN AVE 1545 S STATE ST 1550 S INDIANA AVE | **** | Discovery Discovery GeoResults | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1317 S MICHIGAN AVE 1308 S LAKE SHORE DR 1304 S INDIANA AVE 1318 S MICHIGAN AVE 1319 S WABASH AVE 1325 S WABASH AVE 1326 S MICHIGAN AVE 1333 S WABASH AVE 1349 S WABASH AVE 1349 S WABASH AVE 1349 S WABASH AVE 144 E JACKSON BLVD 1440 S STATE ST 141 W JACKSON BLVD 1441 S MICHIGAN AVE 1455 S MICHIGAN AVE 1455 S MICHIGAN AVE 1556 S MICHIGAN AVE 1550 S INDIANA AVE 1550 S INDIANA AVE | **** | Discovery Discovery GeoResults | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S MICHIGAN AVE 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1324 S MICHIGAN AVE 1330 S LAKE SHORE DR 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1317 S WABASH AVE 1318 S WABASH AVE 1325 S WABASH AVE 1349 S WABASH AVE 1349 S WABASH AVE 1349 S WABASH AVE 1349 S WABASH AVE 1353 S WABASH AVE 144 S JACKSON BLVD 1401 S STATE ST 141 W JACKSON BLVD 1440 S MICHIGAN AVE 1455 S MICHIGAN AVE 1545 S STATE ST 1550 S INDIANA AVE 1556 S MICHIGAN AVE | **** | Discovery Discovery GeoResults | |
| 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 | CHCGILSU CHCGILTB CHCGILTM CHCGILWB | 625 N MICHIGAN AVE 435 N MICHIGAN AVE 536 S CLARK ST 1 BANK ONE PLZ 1006 S MICHIGAN AVE 107 W VAN BUREN ST 11 E ADAMS ST 111 W JACKSON BLVD 1121 S CLINTON ST 1130 S WABASH AVE 117 W HARRISON ST 1212 S MICHIGAN AVE 122 S MICHIGAN AVE 1234 S MICHIGAN AVE 1300 S LAKE SHORE DR 1304 S INDIANA AVE 1316 S MICHIGAN AVE 1316 S MICHIGAN AVE 1317 S MICHIGAN AVE 1308 S LAKE SHORE DR 1304 S INDIANA AVE 1318 S MICHIGAN AVE 1319 S WABASH AVE 1325 S WABASH AVE 1326 S MICHIGAN AVE 1333 S WABASH AVE 1349 S WABASH AVE 1349 S WABASH AVE 1349 S WABASH AVE 144 E JACKSON BLVD 1440 S STATE ST 141 W JACKSON BLVD 1441 S MICHIGAN AVE 1455 S MICHIGAN AVE 1455 S MICHIGAN AVE 1556 S MICHIGAN AVE 1550 S INDIANA AVE 1550 S INDIANA AVE | **** | Discovery Discovery GeoResults | |

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|--------------|----------------------|-----------------------------------------|----------------|------------|--------|
| 511 | CHCGILWB | 175 JACKSON PL | | | |
| 512 | CHCGILWB | 175 W JACKSON BLVD | **** | Discovery | |
| 513 | CHCGILWB | 18 W JACKSON BLVD | | | |
| 514 | CHCGILWB | 19 W JACKSON BLVD | | | |
| 515 | CHCGILWB | 2 E 8TH ST | - | | |
| 516 | CHCGILWB | 20 E JACKSON BLVD | **** | 0-5 | |
| 517 518 | CHCGILWB | 200 W JACKSON BLVD 201 S STATE ST | 1 | GeoResults | |
| 519 | CHCGILWB CHCGILWB | 201 S STATE ST | | | |
| 520 | CHCGILWB | 202 S STATE ST | 4727 | Disperse | |
| 521 | CHCGILWB | 211 S CLARK ST | | Discovery | |
| 522 | CHCGILWB | 218 S WABASH AVE | | | |
| 523 | CHCGILWB | 220 S STATE ST | | | |
| 524 | CHÇGILWB | 223 W JACKSON BLVD | *** | GeoResults | |
| 525 | CHCGILWB | 226 S WABASH AVE | | Socies | |
| 526 | CHCGILWB | 228 S WABASH AVE | | | |
| 527 | CHCGILWB | 230 S DEARBORN ST | | | - |
| 528 | CHCGILWB | 230 S LA SALLE ST | *** | Discovery | |
| 529 | CHCGILWB | 2301 S LAKE SHORE DR | | | |
| 530 | CHCGILWB | 232 S WABASH AVE | | | |
| 531 | CHCGILWB | 234 S WABASH AVE | | | |
| 532 | CHCGILWB | 247 S STATE ST | | | |
| 533 | CHCGILWB | 28 E JACKSON BLVD | | | |
| 534 | CHCGILWB | 300 S MICHIGAN AVE | | | |
| 535 | CHCGILWB | 300 S WACKER DR | | | |
| 536 | CHCGILWB | 310 S FINANCIAL PL | | | |
| 537 | CHCGILWB | 310 S MICHIGAN AVE | **** | GeoResults | |
| 538 | CHCGILWB | 311 S WACKER DR | **** | Discovery | |
| 539 | CHCGILWB | 315 S PLYMOUTH CT | | | |
| 540 | CHCGILWB | 318 S MICHIGAN AVE | | | |
| 541 | CHCGILWB | 320 S PLYMOUTH CT | | | |
| 42 | CHCGILWB | 321 S PLYMOUTH CT | | | |
| 43 | CHCGILWB | 323 S FRANKLIN ST | | | |
| 544 | CHCGILWB | 327 S LA SALLE ST | | | |
| 545 | CHCGILWB | 328 S WABASH AVE | | | |
| 546 | CHCGILWB | 33 W JACKSON BLVD | | | |
| 547 | CHCGILWB | 330 S WELLS ST | | | |
| 548 | CHCGILWB | 332 S MICHIGAN AVE | | | |
| 549 | CHCGILWB | 333 S STATE ST | | | |
| 550 | CHCGILWB | 333 S WABASH AVE | | | |
| 551 | CHCGILWB | 40 E 9TH ST | | | |
| 552 | CHCGILWB | 400 E MONROE ST 400 S FINANCIAL PL | | | |
| 553 554 | CHCGILWB CHCGILWB | 400 S FINANCIAL PL 400 S LA SALLE ST | | | |
| 555 | CHCGILWB | 400 S TA SALLE ST | | | |
| 556 | CHCGILWB | 400 S STATE ST | | | |
| 557 | CHCGILWB | 401 S LA SALLE ST | | | |
| 558 | CHCGILWB | 401 S STATE ST | | | |
| 559 | CHCGILWB | 407 S DEARBORN ST | | | |
| 560 | CHCGILWB | 410 S MICHIGAN AVE | | | |
| 561 | CHCGILWB | 411 S WELLS ST | | | |
| 62 | CHCGILWB | 412 S DEARBORN ST | | | |
| 563 | CHCGILWB | 412 S WELLS ST | - | ··· | |
| 64 | CHCGILWB | 417 S DEARBORN ST | | | |
| 65 | CHCGILWB | 427 S LA SALLE ST | **** | Discovery | |
| 666 | CHCGILWB | 431 S DEARBORN ST | | | |
| 67 | CHCGILWB | 433 W HARRISON ST | | | |
| 68 | CHCGILWB | 440 S LA SALLE ST | **** | Discovery | |
| 69 | CHCGILWB | 47 W POLK ST | | | |
| 570 | CHCGILWB | 50 E CONGRESS PKWY | | | |
| 571 | CHCGILWB | 500 S CLINTON ST | | | |
| 72 | CHCGILWB | 520 S FEDERAL ST | | | |
| 73 | CHCGILWB | 525 W VAN BUREN ST | | | |
| 74 | CHCGILWB | 527 S WELLS ST | | | |
| 75 | CHCGILWB | 529 S WABASH AVE | | | |
| 576 | CHCGILWB | 542 S DEARBORN ST | | | |
| 577 | CHCGILWB | 547 W JACKSON BLVD | | | |
| 578 | CHCGILWB | 55 E JACKSON BLVD | | | |
| 579 | CHCGILWB | 55 W VAN BUREN ST | | | |
| 580 | CHCGILWB | 550 W TAYLOR ST | | | |
| 581 | CHCGILWB | 550 W VAN BUREN ST | | | |
| 582 | CHCGILWB | 558 W DE KOVEN ST | | | |
| | | | | | |
| 583 584 | CHCGILWB CHCGILWB | 571 W JACKSON BLVD 59 E VAN BUREN ST | | | |

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| 585 | CHCGILWB | 600 S DEARBORN ST | | |
| 586 587 | CHCGILWB | 600 S FEDERAL ST | | |
| 588 | CHCGILWB CHCGILWB | 600 S MICHIGAN AVE 600 W TAYLOR ST | <u> </u> | |
| 589 | CHCGILWB | 601 S LA SALLE ST | *** | Discovery |
| 590 | CHCGILWB | 601 W POLK ST | **** | GeoResults |
| 591 | CHCGILWB | 618 S MICHIGAN AVE | | |
| 592 | CHCGILWB | 619 S LA SALLE ST | | |
| 593 | CHCGILWB | 621 S PLYMOUTH CT | | |
| 594 | CHCGILWB | 626 S CLARK ST | | |
| 595 | CHCGILWB | 630 W HARRISON ST | ļ | |
| 596 597 | CHCGILWB CHCGILWB | 633 S PLYMOUTH CT 637 S DEARBORN ST | | |
| 598 | CHCGILWB | 644 S CLARK ST | | <u> </u> |
| 599 | CHCGILWB | 65 E HARRISON ST | | |
| 600 | CHCGILWB | 65 W JACKSON BLVD | | |
| 601 | CHCGILWB | 650 S CLARK ST | | |
| 602 | CHCGILWB | 651 S WELLS ST | | |
| 603 | CHCGILWB | 700 S CLINTON ST | | |
| 604 | CHCGILWB | 700 S FEDERAL ST | | |
| 605 606 | CHCGILWB CHCGILWB | 711 S DEARBORN ST 714 S DEARBORN ST | | |
| 607 | CHCGILWB | 717 S WELLS ST | | |
| 608 | CHCGILWB | 720 S MICHIGAN AVE | <u> </u> | <u> </u> |
| 609 | CHCGILWB | 725 S WELLS ST | *** | Discovery |
| 610 | CHCGILWB | 727 S DEARBORN ST | | , |
| 611 | CHCGILWB | 732 S FINANCIAL PL | | |
| 612 | CHCGILWB | 739 S CLARK ST | | |
| 613 | CHCGILWB | 800 S DESPLAINES ST | | |
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| 615 616 | CHCGILWB CHCGILWB | 800 S WELLS ST 801 S CANAL ST | **** | Discovery |
| 617 | CHCGILWB | 815 S WABASH AVE | | |
| 618 | CHCGILWB | 819 S WABASH AVE | | · |
| 619 | CHCGILWB | 820 S MICHIGAN AVE | | |
| 620 | CHCGILWB | 85 W JACKSON BLVD | | |
| 621 | CHCGILWB | 899 S PLYMOUTH CT | | |
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| 622 | CHCGILWB | 910 S MICHIGAN AVE | | |
| 622 623 | CHCGILWB CHCGILWE | 219 S DEARBORN ST | ****** | Discovery |
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|------------|----------------------|---------------------------------------|--------------|--------------------------------------------|
| 659 | OKBRILJB | 900 JORIE BLVD | **** | Discovery |
| 660 | OKBRILOA | 1 MCDONALDS DR | *** | CD |
| 662 | OKBRILOA OKBRILOA | 1 MID AMERICA PLZ 1 OAKBROOK CTR | | GeoResults |
| 663 | OKBRILOA | 1 OAKBROOK TER | | |
| 664 | OKBRILOA | 1 TOWER LN | | |
| 665 | OKBRILOA | 10 OAKBROOK CTR | *** | Discovery |
| 666 | OKBRILOA | 100 OAKBROOK CTR | | |
| 667 668 | OKBRILOA OKBRILOA | 1100 JORIE BLVD 1110 JORIE BLVD | | |
| 669 | OKBRILOA | 1111 W 22ND ST | *** | GeoResults |
| 670 | OKBRILOA | 11465 W CERMAK RD | | |
| 671 | OKBRILOA | 1200 HARGER RD | | |
| 672 | OKBRILOA | 1200 JORIE BLVD | | |
| 673 674 | OKBRILOA OKBRILOA | 1211 W 22ND ST 125 WINDSOR DR | | |
| 675 | OKBRILOA | 1301 W 22ND ST | | |
| 676 | OKBRILOA | 1314 KENSINGTON RD | | |
| 677 | OKBRILOA | 1315 W 22ND ST | | |
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| 679 | OKBRILOA | 1401 W 22ND ST | | |
| 680 681 | OKBRILOA OKBRILOA | 1415 W 22ND ST 1420 KENSINGTON RD | | |
| 682 | OKBRILOA | 1500 16TH ST | | |
| 683 | OKBRILOA | 1515 W 22ND ST | | |
| 684 | OKBRILOA | 1520 KENSINGTON RD | | |
| 685 | OKBRILOA | 1550 SPRING RD | | |
| 686 | OKBRILOA | 1600 16TH ST | | |
| 687 688 | OKBRILOA OKBRILOA | 1603 16TH ST 17W220 22ND ST | | |
| 689 | OKBRILOA | 17W240 22ND ST | | |
| 690 | OKBRILOA | 17W300 22ND ST | - | |
| 691 | OKBRILOA | 17W480 22ND ST | | |
| 692 | OKBRILOA | 17W740 22ND ST | | |
| 693 694 | OKBRILOA | 17W754 22ND ST | | |
| 695 | OKBRILOA OKBRILOA | 18W100 22ND ST 18W200 22ND ST | | |
| 696 | OKBRILOA | 1900 SPRING RD | | |
| 697 | OKBRILOA | 1901 W 22ND ST | | |
| 698 | OKBRILOA | 1909 SPRING RD | **** | GeoResults |
| 699 | OKBRILOA | 2 MID AMERICA PLZ | | |
| 700 701 | OKBRILOA OKBRILOA | 2 OAKBROOK CTR 2000 CLEARWATER DR | | |
| 702 | OKBRILOA | 2000 SPRING RD | | |
| 703 | OKBRILOA | 2000 YORK RD | | |
| 704 | OKBRILOA | 2001 SPRING RD | | |
| 705 | OKBRILOA | 2015 SPRING RD | | |
| 706 707 | OKBRILOA OKBRILOA | 2021 SPRING RD 2100 CLEARWATER DR | | |
| 708 | OKBRILOA | 2115 BUTTERFIELD RD | - | |
| 709 | OKBRILOA | 2122 W 22ND ST | | |
| 710 | OKBRILOA | 2155 W 22ND ST | | |
| 711 | OKBRILOA | 2208 MIDWEST RD | | |
| 712 713 | OKBRILOA OKBRILOA | 2210 CAMDEN CT 2210 MIDWEST RD | | |
| 714 | OKBRILOA | 2211 YORK RD | | |
| 715 | OKBRILOA | 2215 YORK RD | | |
| 716 | OKBRILOA | 2221 CAMDEN CT | **** | Discovery |
| 717 | OKBRILOA | 2301 W 22ND ST | **** | GeoResults |
| 718 719 | OKBRILOA OKBRILOA | 2301 YORK RD 2311 W 22ND ST | | |
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| 721 | OKBRILOA | 2425 W 22ND ST | ~ | |
| 722 | OKBRILOA | 2601 W 22ND ST | | |
| 723 | OKBRILOA | 2603 W 22ND ST | | |
| 724 | OKBRILOA | 2605 W 22ND ST | | |
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| 727 | OKBRILOA | 2707 BUTTERFIELD RD | **** | GeoResults |
| 728 | OKBRILOA | 2803 BUTTERFIELD RD | | - 1000110 |
| 729 | OKBRILOA | 2805 BUTTERFIELD RD | | |
| 730 | OKBRILOA | 2809 BUTTERFIELD RD | **** | GeoResults |
| 731 | OKBRILOA | 2907 BUTTERFIELD RD | | |
| 732 | OKBRILOA | 3001 BUTTERFIELD RD | | <u>. </u> |

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SBC Illinois Ex. 2.0 (Smith Direct-Transport)
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| 733 | OKBRILOA | 3003 BUTTERFIELD RD | **** | GeoResults |
|-----|----------|---------------------|------|--------------|
| 734 | OKBRILOA | 3121 BUTTERFIELD RD | | 333, (300,13 |
| 735 | OKBRILOA | 6 OAKBROOK CTR | | |
| 736 | OKBRILOA | 700 COMMERCE DR | | |
| 737 | OKBRILOA | 701 HARGER RD | | |
| 738 | OKBRILOA | 711 JORIE BLVD | **** | GeoResults |
| 739 | OKBRILOA | 72 OAKBROOK CTR | | · · |
| 740 | OKBRILOA | 800 ENTERPRISE DR | | |
| 741 | OKBRILOA | 800 JORIE BLVD | | |
| 742 | OKBRILOA | 810 JORIE BLVD | *** | GeoResults |
| 743 | OKBRILOA | 814 COMMERCE DR | **** | GeoResults |
| 744 | OKBRILOA | 815 COMMERCE DR | **** | Discovery |
| 745 | OKBRILOA | 820 JORIE BLVD | | |
| 746 | OKBRILOA | 823 COMMERCE DR | | |
| 747 | OKBRILOA | 900 COMMERCE DR | | |
| 748 | OKBRILOA | 903 COMMERCE DR | | |
| 749 | OKBRILOA | 915 HARGER RD | | |

ICC Docket No. 03-0596 2.0 Smith Direct Loop

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About Telecommunications BusinesScores 4.0

What is Telecommunications BusinesScores 4.0?

Telecommunication BusinesScores 4.0 is the fourth generation of a unique data product providing usage estimates of the key telecommunication services for every record in the D&B database of approximately 13 million business establishments, including some 8 million buildings. These unique estimates are derived from TNS Telecoms' (TNST) proprietary primary data, gathered from multiple waves of its quarterly BusinessWave™ telephone survey totaling over 30,000 business firms (see Appendix 2 - "The BusinessWave Survey"). The original, core variables in Telecommunications BusinesScores 4.0 are designed to cover the major sources of business telecommunication spending, product presence and usage, and other geographical and building attributes, at the *individual business location*, and contain the following types information:

- Point & Census Geocodes
- LATA Code
- V&H Coordinates
- CDP and CSD FIPS Codes
- MSA/CMSA/PMSA Code
- Urban/Rural Flag
- CPL Code
- Total firms in building
- Total building Local Bill
- Total bldg. Toll Bill
- Total bldg. Toll minutes
- · Total building access lines
- ILEC Code
- Number of Working Telephone Numbers
- ◆ CLLI-11 & CLLI-8 Codes

- Total Communications Bill
- Total Wireline Bill (by All. Voice, & Data applications)
- Total Wireless Bill
- Total Local Phone Bill
- Total Toll Bill (by both) intraLATA & interLATA)
- Total Toll Minutes (by both) intraLATA & interLATA)
- "1-800" Bill & Service Probability
- International Calling Prob.
- Centrex Probability
- PBX Probability
- Other types Probability
- Distance to the C.O.
- Flags by Data Services type

- Consolidates and Site **Broadband Demand**
- **Business Internet Access** Probability
- Probability of Hi-Speed Internet Access
- E-commerce Utilization for Selling & Purchasing
- Probability of Data Lines
- Probability of xDSL Lines
- Probability of T-1 Lines
- Probability of T-3 Lines
- Switched Bus. Access Lines
- Probability of Special Access **Business Lines**
- Probability of Private Lines

The "types" of Telecommunications BusinesScores can be broken out into six distinct categories:

- 1. Demand Estimates: contain information on volumetric estimates of telco-related demand, such as estimated local phone bill, intra and interLATA toll bill, wireless bill, switched access line equivalents, etc.
- 2. Need Indicators: provide insights on the probabilities of specific types of services being in-place at the firm, such as Centrex systems, PBX systems, private lines, etc.

- 3. "CPL" Building Data: include the CPL Code that identifies the unique building, as well as aggregations at the building level (based on summing-up the contributions of all the tenants in the building), such as total firms, total spending, total lines, etc.
- 4. Bandwidth Measures: contain the "Broadband Demand" suite (the Consolidated Broadband Demand and Site Broadband Demand scores), and other related scores, such as the "Data Services Range Flag" variables.
- 5. Central Office & Wire Centers: provide information on the ILEC Central Office and Wire Center associated with the firm via TNST's proprietary assignment methodology and via more traditional GIS-based Wire Center boundary assignments, and the distances between the firm and these C.O.s.
- 6. Geographic Identifiers: includes Telco geographies associated with the firm, such as ILEC Service Area Code and LATA Code, as well as the most accurately assignable values for Census Geocode (down to the Census block) and point geocoordinates (in latitude/longitude).

Having this many different categories and variety of Telecommunications BusinesScores data elements provides users with the ability to address the widest range of telecommunications applications available, at the greatest degree of consistency and accuracy available for modeled data.

Why were Telecommunications BusinesScores built?

Ongoing deregulation of the telecommunications industry, the rapid pace of technological innovation and development in the industry, and the volatile corporate changes happening even to the largest players in the telecommunications industry, are creating a highly competitive and dynamic market. Traditional telecommunication providers are looking to expand and protect their customer base and need to identify their best customers, while targeting new prospects that are like them. New providers of telecommunications products and services often have offerings that are best suited to a select "niche" of all firms, and are trying to grow their share of the market at the expense of the established incumbents. The Telecommunications BusinesScores were built for firms in or associated with the entire communications industry to satisfy a growing demand for detailed telecommunications descriptors and usage estimates by *individual firm* – or by *individual building* – based on the company's definition of exactly who constitutes the actual telecom end "customer".

The Telecommunications BusinesScores are designed to allow telecommunication product and service providers to design efficient sales and marketing campaigns by enabling these firms to select their target customers, using direct and relevant criteria. For example, a telecommunication provider may have designed an offering that is likely going to be of interest to those firms who have a PBX system. Instead of randomly marketing to all firms, or selecting firms based on a simple criterion such as number of employees, the service can now directly select only those firms that have a high probability of actually having a PBX system. The Telecommunication BusinesScores are designed to allow for precise targeting of customer or

prospect lists for any telecommunication product or service provider, or for any other firm with a need to have both strategic and tactical estimates of detailed telecommunications-related information, at a detailed or aggregate level.

Who built them, and what are they based on?

The modelers and industry experts at TNST built the first generation of syndicated Telecommunications BusinesScores in late 1995, as part of a strategic alliance formed with the Dun & Bradstreet Corporation. The first commercial offering of Telecommunications BusinesScores was made through D&B in 1996 under the name "Telecom Demand Estimators".

The earlier generations of these models were created through the use of two main sources of primary, proprietary data. The first source was actual usage data from an integrated billing database of over 880,000 firms from an industry consortium called the *National Telecommunications Demand Study* (or "NDTS" – made up of representatives from all the major local phone companies – which was administered by PNR and Associates, the predecessor to TNST). The second source was PNR's *BusinessWave* survey of 3,500 businesses (which was initially run as an annual, diary-recall survey from a pre-recruited panel), then linked to Dun & Bradstreet firmographic data and offered as syndicated, value-added data elements to D&B's national D-U-N-S file.

Several years later, PNR and Associates was absorbed into INDETEC International, Inc., a San Diego-based consulting firm that specialized in cost modeling and expert testimony for state telecommunications regulatory proceedings. In November 1999, INDETEC International was acquired by Taylor Nelson Sofres, a UK-based corporation that is the fourth largest marketing research company in the world, and currently does business in the United States under the corporate business sector name of "TNS Telecoms", or "TNST".

Along with the evolution of TNST, the BusinessWave survey evolved as well, growing and changing, until it has reach its current state: a 45-minute, guided telephone interview from a continually changing, nationally representative sample of some 3500 business firms per quarter. The content and size of the BusinessWave survey has grown so large that TNST has now been able, by aggregating the most recent eight quarters of the survey, to move to the BusinessWave data as *the complete and single underlying source* for all Telecommunications BusinesScores modeling content.

Each year, TNST regenerates the core models underlying the Telecommunications BusinesScores data elements, based on the most recent multi-wave set of BusinessWave data (comprised of approximately 30,000+ records), and also refreshes the entire D&B D-U-N-S file each month with the most current data elements. TNST has also automated the process of creating and validating the models to the point where it may be possible, in the near future, to completely re-build and update all of the models (using the latest eight quarters of aggregated BusinessWave data) every 90 days, to ensure that users are always working with the most recent view of the current telecommunications market.

When were they built?

The vintage of the data for the current 4.0 version of BusinesScores ranges from year 2001 to 2003, depending on the specific release. The models were initially developed in the first and second quarters of 2003, from the most recent 8 quarterly "waves" of the *BusinessWave* survey data at the time. This most recent version of the entire product will be rolled out in the third quarter of 2003. TNST is also greatly expanding the quantity and scope of the Telecommunications BusinesScores data elements, to keep pace with the demands of the telecom industry's increasingly sophisticated requirements, so there may additional variables released in the near future as optional supplements to the data elements described here.

How were they built?

The BusinessWave data records were statistically analyzed to develop estimates for all firms on the D&B database. TNST takes the approach that, rather than imbedding any subjective assumptions in the models themselves, the models should allow the data to speak for itself by reflecting actual behavior, based on real-world data at the firm level. TNST uses an advanced and proprietary statistical modeling processes to create the BusinesScores underlying models, so that every record in the D&B database that goes through the scoring process receives a set of BusinesScores data elements, irrespective of the completeness of the D&B firmographic information.

Two of the later enhancements used in the most recent version of the Telecommunications BusinesScores modeling process involve:

- Transitioning to a view of a firm's "access lines" in terms of "access line equivalents" (a "line equivalent" being a 56 Kbyte slice of digital switch bandwidth); and,
- 2) Segmenting the business firms into four distinct types of "access line equivalents", which consist of:
 - "Non-PBX" (POTS & Centrex) lines.
 - "PBX" lines using "Regular" trunks.
 - "PBX" lines using "T1-based" trunks.
 - "PBX" lines using "T3-based" trunks.

Both of these enhancements capture the effects of the different options that can be used to address a firm's overall communications requirements using new technologies, the extensive business use of the internet and the growth of the demand for bandwidth, and the convergence of voice and data traffic requirements through the use of advanced digital switches.

More detailed information on the Telecommunications BusinesScores modeling methodology, and how they are applied to the D&B national file appears in **Section 4:** "The Modeling and Scoring Process".

SECTION 4

The Modeling and Scoring Process

Overview

This section describes the general processes and methodologies used to create the underlying Telecommunications BusinesScores models, how these models get transformed into the data elements and applied to the D&B national file, and how the final results are validated against reality to ensure accuracy of the end product.

The BusinessWave Database

As mentioned earlier, this is the first generation of the Telecommunications BusinesScores product where every volumetric element is a true model driven directly from the underlying data source. Most of this was true with Version 3.x, the notable exceptions to this rule being any non-modeled elements (such as the geographic code look-ups), and the "Broadband Potential" scores, which were "constructs" – not true models – that embodied a series of expert rules about how certain bandwidth characteristics move with certain other firmographic variables.

The Telecommunications BusinesScores suite of data elements uses TNS Telecoms' proprietary **BusinessWave**® telephone survey information as its source data. BusinessWave is the longest-running commercial survey initiative of its type (since 1995), and is also the widest in terms of telecommunications content. Each calendar quarter, TNST telephone interviewers contact a nationally representative cross-section of business firms, and conduct a 45-minute interview with the appropriate knowledgeable contact(s) at the firm. Information on that firm's behavior and usage relating to telecommunications-related products and services is gathered, across these categories:

- Switch/Line Types
 - POTS, Key, PBX & Centrex
- Local Telecommunications Usage
 - Voice component
 - Data component
- Regional Toll, Domestic and International Spending
- Private/Dedicated Lines
 - T1 lines
 - T3 lines
 - Fractional T1 lines
 - DSO lines
 - Dedicated VGA (Tie)
 - Other Private/Dedicated lines

- Dedicated Facilities
- 800/WATS Service
- Wireless Services
 - Spending
 - Voice & Data components
- Internet Service
- Company Web site
 - Use of hosting services
 - E-commerce activity
- Employee Access to Internet
 - Type of Access
 - Use of Internet
- Directory Advertising
- Company Location Firmographics

Data Cleansing and Preparation

Each quarter's survey nets over 3,500 respondents, and the telephone survey mechanism insures that both the appropriate person at the firm is being interviewed, and that the interviewers can clarify any respondent confusion about the questions being asked, thereby ensuring that only correct and accurate information is being captured. For consistency's sake, the majority of the survey content is identical across quarterly "waves" of the survey, with a minority of the survey reserved for "special studies" – topical issues that can vary each quarter.

To gain statistical stability, the eight most recent consecutive quarterly "waves" of the survey are combined together over a two-year period to form a "MultiWave" database of over 30,000 individual business respondents, which also include the self-reported firmographics of each business establishment. This "Multi-Wave" core of current, detail respondent data forms the basis of the product, and is key to the quality of the Telecommunications BusinesScores built from it. (For more details of the Survey, see Appendix 2: "The BusinessWave Survey")

Once the BusinessWave data has been aggregated as a starting point the overall process can now begin. TNST starts out with a scan of the combined BusinessWave dataset, using its own proprietary software, which analyzes the data in terms of TNST proprietary "clusters", which exist at a fairly granular level of detail. The purpose of looking at the self-reported values in these clusters is to determine the overall norms for the clusters, and then to identify records that look like they are peculiar "outliers", in that their behavior relative to the group they are in appears extreme. If these values are too extreme (according to an internal proprietary rule set), these records are flagged as "outliers", and not used in the development of any scores. By prescreening these "outlier" records, TNST ensures that no one single record has a disproportionate effect on the overall modeling process, leading to potential over- or under-estimation.

The Modeling Process

(The processes below apply only to those truly "modeled" BusinesScores data elements associated with telecommunications behaviors, such as the estimates of usage, or probability of having certain services. Other elements, such as geographic codes, point coordinates, and CLLI-code related attributes, are not "modeled", but are assigned by a separate combination of both commercial and proprietary computer software, which makes direct assignments to the record, based on key information in the firm's address and/or telephone number information).

To create the underlying models ultimately used to create the BusinesScores data elements, special TNST "Multivariate Visualization" software is used to allow the core BusinessWave data to speak for itself, to identify trends in the data, and to gain insight on which firmographic elements are the most likely to emerge as viable "driver" variables for the creation of the scores. After these "driver" elements have been identified as both: a) having a significant effect on the attribute being modeled; and, b) being present on a significant number of the records on the national D&B file, TNST then uses advanced multivariate, non-linear statistical regression and LOGIT techniques applied to the "MultiWave" database to derive the underlying models.

The greatest advantage of having a large, consistent source of primary data from which to build models, and an objective way of determining the driving elements, is that one does not have to make any underlying assumptions regarding causality, thereby eliminating any errors of commission – or omission – associated with such assumptions.

After the BusinessWave dataset has been cleansed, prepared, and purged of outlier records, the core modeling can begin. Most of the modeling processes used in the development of the Telecommunications BusinesScores is fairly generic, but what makes the Version 4.0 data elements really unique are the following:

- 1. Unique Data Source: The BusinesScores content, at the firm level, is unlike any other telecommunications-related data available in the marketplace, in terms of detail, timeliness, and scope, and this is reflected in the quality and accuracy of the derived scores.
- 2. Unique Data Hygiene: Special pre-processing routines check the data during the survey process to catch anomalous responses before they enter the database, so these can be clarified and corrected by the telephone interviewer, and additional processing routines search out anomalous "outlier" records at a granular level, to ensure they do not enter the modeling process.
- 3. Unique Development Tools: The underlying techniques of the majority of the models that TNST develops from the BusinessWave data are basically generic, but carry some distinctive innovations necessary to deal with telecommunications behavior distributions (i.e., multivariate, non-linear statistical regression is used for developing models of continuous fields, such as spending amounts for services; LOGIT is used for the development of discontinuous fields such as "Have a PBX system?" where "0"="No", and "1"="Yes" that are later displayed as continuous probabilities). The specialized software that is used to create the models is proprietary TNST software that also performs some "non-generic" enhancements, produces the model code, performance statistics, error bounds, and many additional functions that are critical for the rapid, automated creation of accurate models.
- 4. Unique Product Methodology: While the majority of TNST's modeling might be considered "traditional", there is one point that really differentiates it from competitors' approaches, and that is the way TNS handles the modeling of low and high bandwidth-related variables. These techniques take full advantage of the BusinessWave detail, to provide extremely accurate estimates of switched access line equivalents, and Broadband Demand (see below for details). Other competitors not having access to this combination of data and methodology frequently make overly simplistic and anachronistic assumptions (such as "T-1s are 100% dedicated to data applications"; or, "a firm has only one type of access line"). This generally leads to overestimating or mischaracterizing the true nature of the business demand at the firm level, because they have no objective sources of current data at this same level to compare to.

5. Unique Product Validation: While TNST can provide many of the conventional exhibits describing the model's performance and validating the results, one of the unique advantages of having a continuous, quarterly source of syndicated data is that it allows the models to be continuously grounded in reality, in that the predicted values of their scores can always be compared to the actual incoming data on newer records (not part of the original sample), to detect any significant "drift" or skew in the performance of the model. If so, the unique tools described in #3, above, can be used to completely rebuild and update any desired model to capture the most recent trends in the marketplace. In the near future, it is likely that all BusinesScores models will be completely be rebuilt each quarter, as well as being refreshed on the D&B file each month. When implemented, this will be a capability unique in the marketplace, but only meaningful if one also has continuously updated data.

As discussed above, TNST does differ from others in how they model the likely bandwidth requirements of a firm, in that TNST views these attributes like telecommunications and marketing industry insiders, and not like economists or academics, in that:

- a) There are no subjective assumptions imbedded into the modeling process it is entirely driven by the underlying Business Wave data itself; and,
- b) This approach pays particular attention to *not only the raw capacity* of the client's bandwidth requirements, *but also the types and cost efficiencies associated with the possible solutions* that can be employed to address them.

The results are very accurate estimates that speak to the clients, in their own language, and in the terms they use to solve real-world problems. The following details below outline how this process is used by TNST to differentiate itself in the handling of the estimation of low and high bandwidth-related client requirements. (As the communications industry is converging, and "bandwidth" can be used as either a measure of the communication capacity or data transmission rate, we are using this term as a generic description of any of the capacity needs of a firm whether they are voice, data, or any other applications.)

Low-Bandwidth: Estimating "Switched Access Lines"

While the new methodology used in Telecommunications BusinesScores 4.0 allows spending and other estimators to be modeled directly, and not estimated by any factors applied "per line equivalent", it is still important to be able to accurately estimate the true switched line equivalents at the firm location, because many active client definitions of what constitutes viable business target market segments do so in terms of ranges of "lines" ("DS-0" channels, "voice grade equivalents", or "64 Kbps slices of bandwidth"), rather than in terms of "annual sales", industry "SIC codes", "number of employees", or more familiar firmographic descriptions.

Because of this, it is TNST's approach to not simply model "channels", but to examine the most likely amount and types of bandwidth requirements at the firm, and model the most likely services solutions used to address these needs. Once this is accomplished, it is a simple matter to derive the "access line equivalents" through the use of standard conversion factors.

TNST's approach to estimating the equivalent "switched" access lines (those running from the client location through the public network switching facilities at the ILEC Central Office) takes into account that these lines can fall into any – or all – of four distinct types:

- 1. "Non-PBX" Lines (POTS, Key or Centrex lines)
- 2. "Regular PBX" Lines, using Conventional trunks
- 3. "T-1-based PBX" Lines, using Digital trunks
- 4. "T-3-based PBX" Lines, using Digital trunks

The main reason for considering each of these types independently is that they look very different from a "line equivalent" perspective, due to the wide differences in the switching efficiencies of the various PBX systems.

In the categories above, there are also significant differences in the way these lines are perceived:

- "Non-PBX" systems resemble regular phone lines.
- "Regular PBX" systems resemble typical PBX trunks
- "T-1" & "T-3-based PBX" systems will appear to be "over-engineered" compared to the "Regular PBX" lines, and may have significant underutilized capacity.

The apparently "over engineered" digital systems are a reflection of the enormous cost economies of scale with digital switches. For example, a single "T-3" line has the same capacity as 24 "T-1" lines, at only three times the price; providing an eight-fold increase in efficiency!

In the above typology, the four different classes of PBX systems all have very different ratios of "line equivalents per employee", used to back into the line estimates, so to be able to assign the correct estimate of the "effective switched line equivalents" to a firm, one has to consider:

- 1. The *overall probability* of being in each of the 4 PBX "types".
- 2. The estimated number of lines for each type

Once TNST has derived, for a given firm, both of the above factors from the underlying BusinessWave survey data, then the effective "Estimated Switched Access Line Equivalents" is calculated by simply summing the 4 pairs of these component products, as shown in the example on the next page, below.

Note that, in the example below, if one knows a firms' probability of having each type of PBX at a given location, determining the number of access lines is a relatively simple exercise, which always *leads to a unique solution*. This is the easy exercise, but only if one has a source of detail to work with like the BusinessWave database.

However, if one lacks this type of detailed data, and attempts to impute detailed level estimates for a firm by dealing only with pre-aggregated data, it would be as difficult as starting with the total sum of access lines, and attempting to derive all the four individual numbers that comprise it... this doesn't lead to a unique solution, and is therefore more prone to error for estimates at the firm level!

["P₁" probability] of "Non-PBX"
$$\times$$
 ["N₁" line equivs.] = ["L₁" effective line equivs.]

["P₂" probability] of "Regular-PBX" \times ["N₂" line equivs.] = ["L₂" effective line equivs.]

["P₃" probability] of "T-1-based PBX" \times ["N₃" line equivs.] = ["L₃" effective line equivs.]

["P₄" probability] of "T-3-based PBX" \times ["N₄" line equivs.] = ["L₄" effective line equivs.]

Estimated Total Access Line Equivalents = $\sum_{n=1}^{4}$ L_n line equivs.

High-Bandwidth: Estimating "Broadband Demand"

In addressing the higher-bandwidth needs of a firm, TNST takes a slightly different, but philosophically consistent, approach in its modeling: it first examines the most likely amount and types of bandwidth requirements at the firm, and then models the most likely data services solutions used to address these needs. If one still needs the equivalents of these solutions in terms of "channels" or raw Mbps, it is a simple matter that TNST can expedite for clients.

In developing the concept of "Broadband Demand", TNST deliberately avoided a pure bandwidth definition typically used by engineers, and went to a more marketing-oriented method of rank-ordering firms that was driven by the direct measure that clients were really trying to understand, but only by indirect means: the relative spending on the data services needed to address the firm's high-bandwidth requirements.

To do this, one has to consider three dimensions of the problem:

- 1. The overall bandwidth requirement.
- 2. The type of data services solution that can cost effectively address this.
- 3. The national average cost of this solution.

Note that, in the example above, if one also knows the *amount* of the particular type of the data services solutions, this gives you, in effect, the overall bandwidth requirement (#1) of the firm!